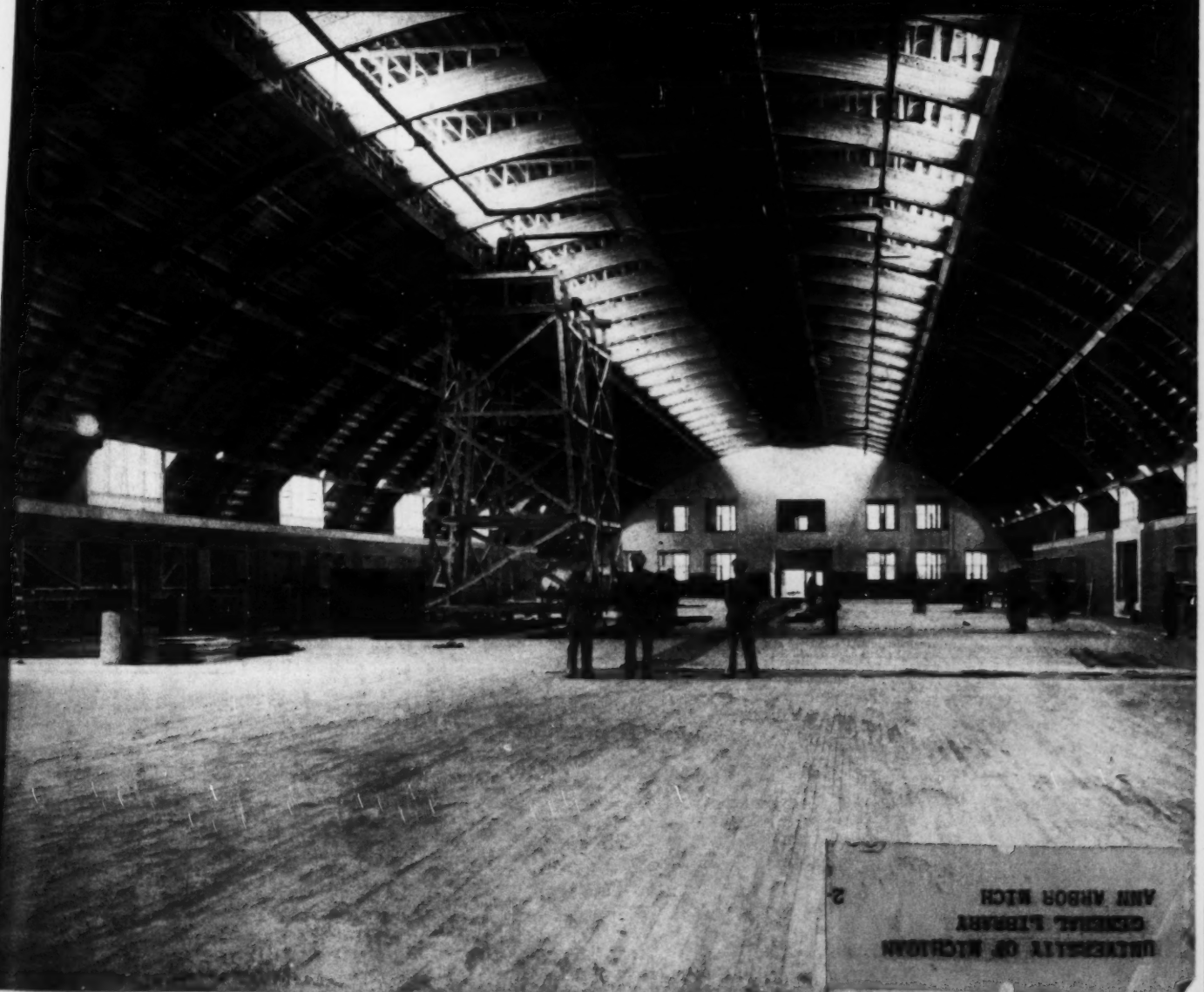
ENGINEERING NEWS-RECORD

inated timber arches leave floor space clear in this huge drill hall at new naval training center.



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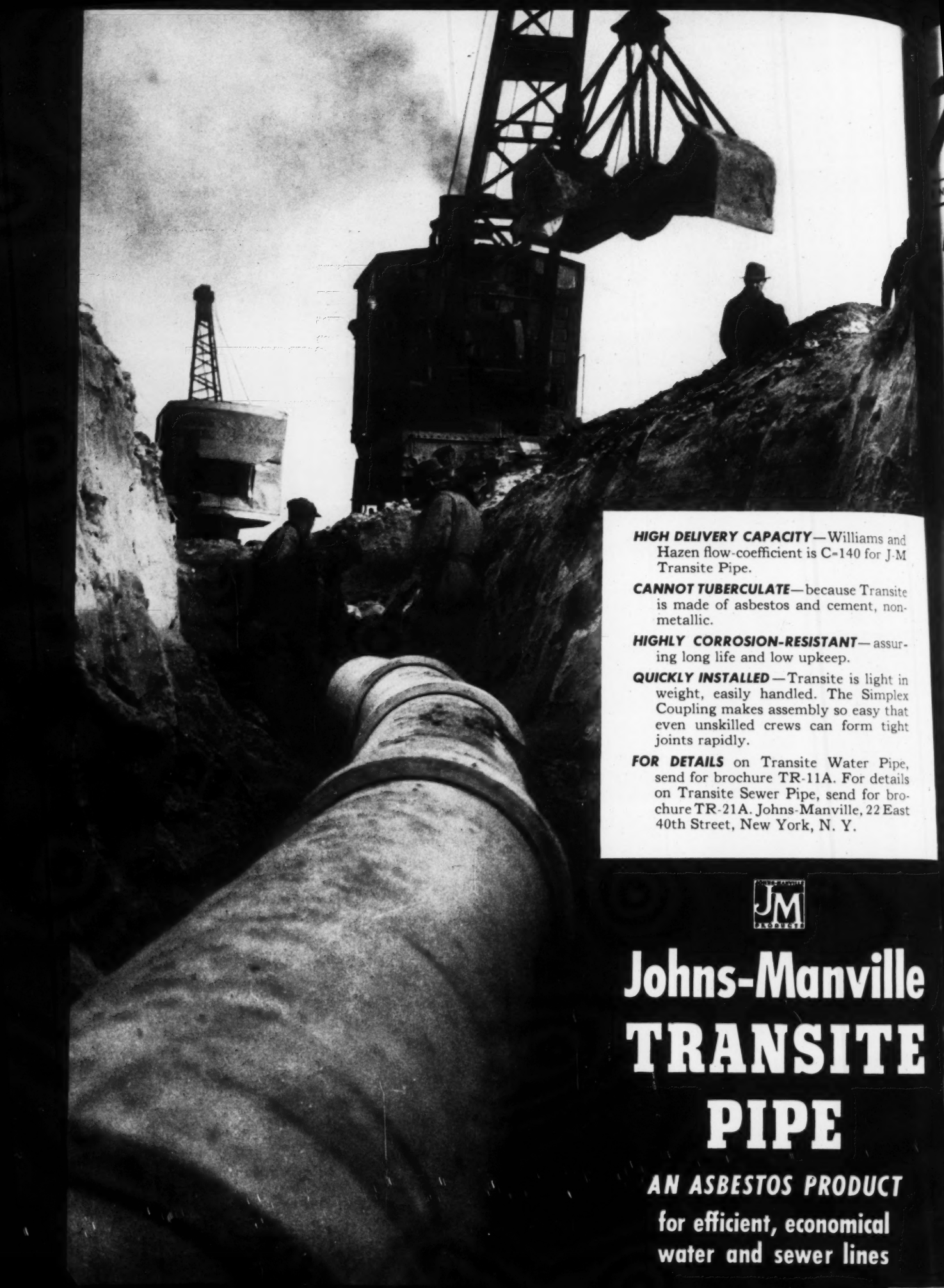

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The Week In Engineering and Construction

ENGINEERING NEWS-RECORD • OCTOBER 29, 1942 • VOLUME 129 • NUMBER 18

Plan to hold 1943 building to two-thirds of 1942 rate

WPB moves to hold down construction to "reasonable" rate, orders war agencies to clear future projects through new boards, all plans must be reviewed.

The War Production Board last week moved to ensure that the level of construction in 1943 will be held down to a rate which it considers reasonable. Federal construction agencies—particularly Army, Navy, and Maritime Commission—have been scheduling much larger construction programs than WPB thinks justified. The projects themselves will use up too much material, and the industrial facilities that make up a large part of the programs exceed the number of plants which can be fully used, in view of the country's manpower and material supply situation.

Last week, WPB cracked down. It ordered the construction agencies to show cause why certain of their projects should not be stopped immediately. The identity of the projects questioned was not revealed, pending a final decision. Moreover, WPB set up a committee to review all existing programs to see how much can be squeezed out, and also provided that no new projects may be initiated by anyone, including the armed services, without prior WPB approval.

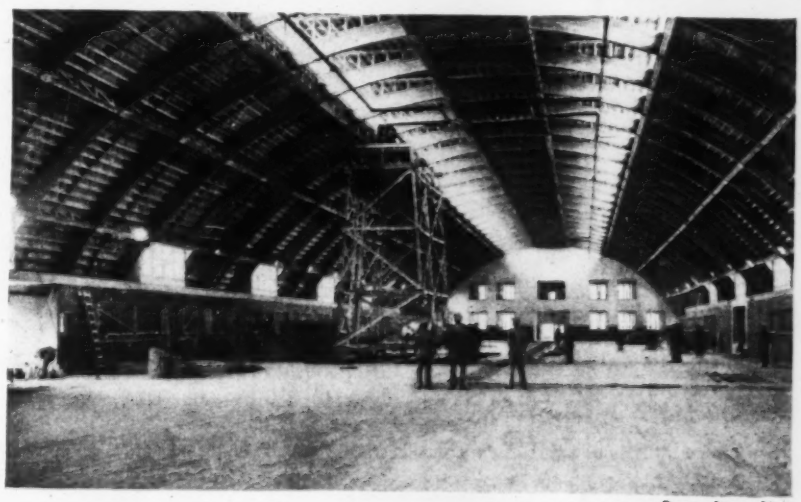
Ever since early summer, WPB has been afraid we were spending too much time and effort getting ready to produce and not enough in actual production (*ENR*, May 21 p. 831). About 40 percent of 1942's $45,000,000,000 war effort will go into construction and into production machinery and tools. Last May, WPB ordered the services not to schedule any further facility expansions, and it looked then as if construction would be cut down in 1943 to something like normal levels. Non-military federal construction was discouraged by granting low or no priority ratings. And limitation order L-41 forbade the initiation of new civilian construction projects without WPB authorization.

Order L-41 limited civilian work fairly effectively, except that it did not reach projects that were underway before April 9. But many a federal flood-control or power project was pushed ahead with a low priority rating—scraping up materials somewhere or deferring parts of the work that used scarce materials—in hopes that later a better priority could be obtained.

Further, the attempt to check initiation of new projects by the military was a complete failure. The armed services went right ahead scheduling new factories, airfields, and the like, attaching ratings to them on their own authority. If all present plans go through, next year's construction and machinery installations would equal or exceed this year's by $17,800,000,000.

WPB objective is to cut deep enough to get next year's program down to about $12,000,000,000, of which $8,000,000,000 would be construction and the rest installations. Of the construction, perhaps half would be direct military facilities—airfields, cantonments and similar work. About a billion and a third would be industrial plants and a slightly smaller amount would be public and private housing for war workers.

To carry out its policy, WPB has set up two groups, both headed by Col. Gordon E. Textor, an engineer officer who has been connected with WPB's Office of Program Development. The Facility Clearance Board, with Col. Textor as acting chairman and WPB Vice-Chairman Ferdinand Eberstadt as nominal chairman will review all future projects



Press Assn. Photo

Timber arches give clear floor for Navy drill hall

Laminated timber arches used in the all-timber drill hall at the Navy's new training base at Seneca Lake, N. Y. permits a clear floor space 600 ft. by 120 ft. The hall is one of six similar structures being erected at the new base to serve an estimated 30,000 Navy recruits during primary training.

Other features of the $47,000,000 base—known as the Sampson Station, in honor of the late Admiral William T. Sampson—include: a railroad depot, administration building, station personnel section to house instructors; officers' quarters; four school buildings; two chapels, post office and telephone exchange; cold storage structures, a central bakery, swimming pools and other structures.

Almost all of the construction is of wood, with concrete block foundations and a large amount of gypsum, insulating board and gumwood materials. Prefabrication was a construction rule wherever possible.

Additionally, there are 26 storehouses, twenty of which are of concrete block. The stations draws its own water supply from Seneca Lake and has a large sewage disposal plant.

Commander J. C. Gebhard, C.E.C., U.S.N., is officer in charge of construction, and contractors were the John A. Johnson Contracting Corp. and the Mount Vernon Contracting Corp. Architect engineer is Shreve, Lamb & Harmon, of New York City.

costing more than $500,000. The board consists of representatives of the three services plus the Army and Navy Air Forces. Smaller projects are to be cleared by a new Facility Review Committee, which also has the job of going over all present programs. The committee is also headed by Col. Textor, with Don Uthus as deputy chairman. The committee also has representatives from the services and from WPB's Office of Civilian Supply and the National Housing Agency.

The squeeze is expected to hit hardest at the Army and Navy, since the NHA, the Federal Works Agency and other civilian units have been pretty well squeezed already, whereas the services have been until recently free to attach priority ratings to their own projects. Last week's decision to concentrate the housing program on rehabilitation of existing structures (*ENR*, Oct. 22, p. 533) was formulated in the light of the present policy.

The FWA revealed this week that it has been asked by WPB to shut down about fifty of its war public-works projects, mostly school buildings, and about 170 road projects, principally jobs on the strategic network. It has shut down 115 of the road jobs and five of the public works projects.

• • •

FWA approves Mid-Atlantic building projects

The office of Brig. Gen. Philip B. Fleming, Federal Works Administrator, has announced approval of a series of large projects, mostly concerning waterworks and sewerage, in the Middle Atlantic States and in Washington, D. C.

Largest job listed was in the Washington, D. C., metropolitan area, where work totaling more than $3,500,000 in estimated cost was approved. This work will include a larger reservoir, water lines and pumps for the Washington water system, and an addition to a local hospital, two schools and 20 recreation areas.

The water supply projects will include specifically demolition of one of the 5,000,000 gal. capacity reservoirs at Fort Reno and construction of a new 20,000,000 gal. reservoir on the site; construction of more than two and one-half miles of 54-in. water main from the Dalecarlia pumping station to a connection with the gravity system near the south end of the Georgetown reservoir, and about a quarter mile of 36-in. "blow off" main; installation of two 25-mgd. pumps and controls for others installed under a previous grant.

Other work approved in the metropolitan area includes a public health building for Arlington county, Virginia, to cost $168,000; additions to the Montgomery county general hospital and others.

Meanwhile, Kenneth Markwell, FWA regional director at Richmond, Va., announced that 13 war public works projects in Virginia, North Carolina and Maryland were put into operation or substantially completed during the past month.

Projects in Virginia included a $1,148,000 addition to the Newport News waterworks system consisting of filtration plants at Harwood Mill and about 87,900 ft. of water main (*ENR*, Oct. 8, p. 475); additional sewerage facilities and school additions in Elizabeth City and at King George. In North Carolina, they included the Honeycutt high school at Fayetteville, waterworks systems at Bonnie Doone and Holly Ridge, and an addition to the sewerage system at Wilmington. Maryland projects included waterworks and sewerage extensions in Baltimore county, and additions to the water distribution systems at Glen Burnie and Hagerstown.

Markwell said that contracts had been awarded during the past month in the three states for:

Virginia—Additions to the municipal sewerage systems at Norfolk and Radford, a hospital project and additions to the waterworks system at Portsmouth.

North Carolina—Equipment for a public health center at Oxford; water and sewerage additions at Elizabeth City, a sewerage project at Wilmington, and two school buildings in Onslow county.

Maryland—An extension of the waterworks system at Elkton.

Award of a contract by the city of Portsmouth, Va., to the Ahlvin Construction Co. of Chicago, for construction of a 6,000,000 gal. filtration plant at near Suffolk, has been approved by the Federal Works Agency.

Start testing Tacoma Narrows Bridge model

Housed in a building especially constructed for the purpose (ENR, Aug. 6, p. 196), this scale model of the ill-fated Tacoma Narrows bridge is now undergoing tests under supervision of Prof. F. B. Farquharson of the University of Washington.

A staff of ten mechanics and students worked all summer building the 100 ft. steel model constructed on a scale of 1 to 50.

The tests are expected to run over a period of three months and provide data to be used in designing a new bridge at the site, replacing the structure that collapsed Nov. 7 1940 during a windstorm.

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Engineers, architects aid OCD protection studies

Committees of architects and engineers are being organized throughout the Third Civilian Defense Region, including Maryland, Pennsylvania and Virginia, and the District of Columbia, to assist in solving technical problems of civilian defense.

When the set-up is completed, according to Judge Rowland K. Adams, regional director, state-wide committees will be organized for all three states. A similar group will be organized in Washington and local technical groups will be created in the larger communities throughout the region.

The committees will perform four services: collecting all available information about target spots and preparing a map showing this information; suggesting methods of camouflage; make estimates of materials and man-hours necessary to put these suggestions into effect, and listing the suggestions in the order of their urgency and importance.

The organization of such committees is reminiscent of a charge published by the American Institute of Architects some months ago (*ENR*, June 11, p. 961) that OCD officials have failed to call on technical men for such service.

The technical unit for Maryland, announced by Mr. Adams' office, is headed by Col. Herman Doellman, Baltimore civil engineer, chairman.

WPB drafts recommendations for steel use in various mill building type

See quicker clearance of priority applications as result; mandatory limit put on number for sizes in specifications of reinforcing bars

Quicker clearance of priority applications on steel for industrial buildings is expected to result from the formulation by the War Production Board of a study showing the amounts of steel which should reasonably be used in various types of mill buildings. Studies have been made of the steel required for seven different types of roof (precast concrete tile, gypsum plank, etc.) with both open-web and solid-web purlins, both with and without provision for a crane. The steel-use, in pounds of steel per square foot of building area, is shown for each of these types for any likely spacing of purlins and trusses.

This study will serve a double purpose. It is being placed in the hands of WPB personnel responsible for checking on the steel-use in buildings on which priorities are granted. These officials can compare the actual steel use with that indicated in the table. If the steel applied for compares favorably with the tables, approval can be granted at once without laborious and lengthy checking of the design. If more steel is being used than the tables justify, further analysis will be necessary.

The study was made before the recent WPB order increasing the working stress in steel (*ENR*, Sept. 17, p. 389). However, the charts can still be used by reducing the indicated steel consumption 10-15 percent.

Copies of the study are not at present available for general circulation. An abstract of the study will however be printed in the Nov. 19 issue of *Engineering News-Record*.

Moving further to put engineering practice on a war basis, the WPB this week gave mandatory force to the Bureau of Standards simplified practice codes on sizes of reinforcing bars and spiral reinforcement. This makes no great change in normal practice, since compliance is almost universal with the codes that limit spiral reinforcement to four sizes and regular bars to ten (reduced from eleven last June when the ½-in. sq. bar was eliminated.) The order does, however, discourage the occasional practice of ordering special runs of odd size bars. In cases where such a procedure is essential, application for permission must be made to WPB.

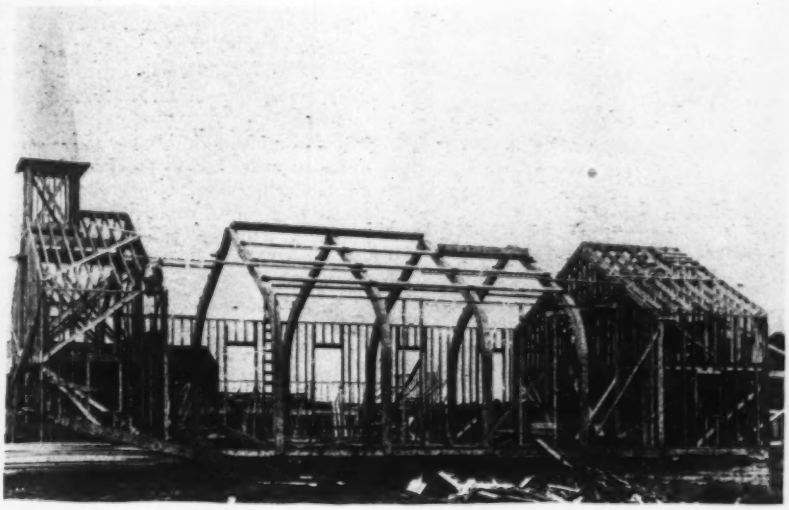
The order also limits the permissible specifications for reinforcing steel to three grades each of billet steel and axle steel and a single grade of rail steel, cold-drawn wire, bar and rod mats, and welded wire fabric.

Similar orders limiting the number of types and sizes of steel products are to be expected soon. Among the early ones will be an order on wire rope, on which the Bureau of Standards is now drafting a simplified practice recommendation.

Concrete specifications delayed in printing

Printing of the "National Emergency Specifications for the Design of Reinforced Concrete Buildings" has been delayed due to unforeseen circumstances. The Government Printing Office now promises them early in November. The order putting these new specifications into effect (*ENR*, Oct. 8, p. 463) states that they apply to all war construction contracts for which are placed 60 days after the order was issued. It was dated Oct. 5, hence the specifications will apply to contracts let after Dec. 4.

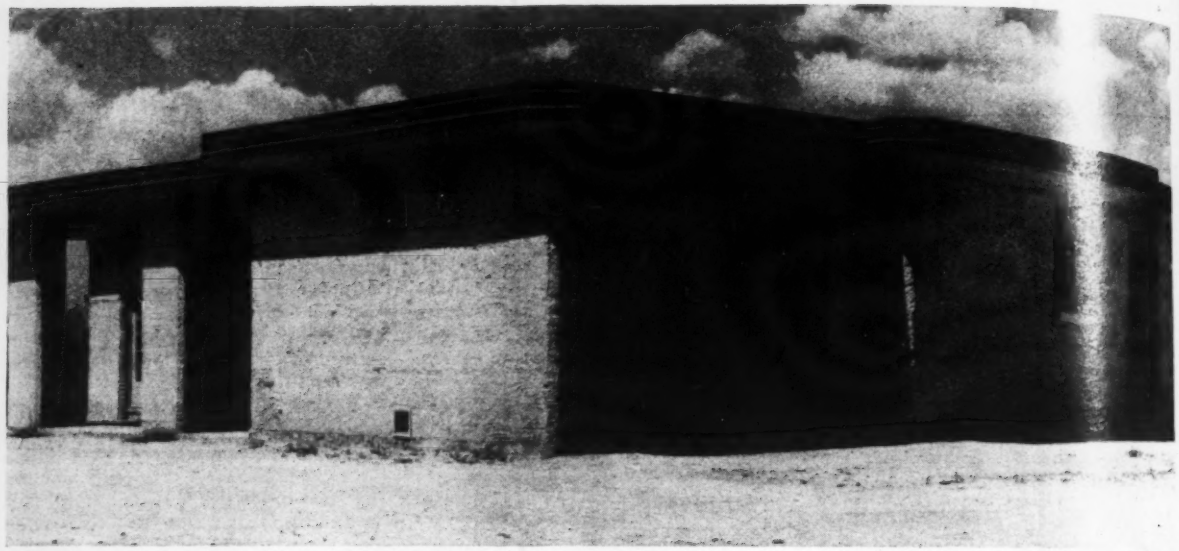
When available, copies can be obtained without charge from P. H. Colby, War Production Board, Room 1310, Railroad Retirement Bldg., Washington, D. C.



Laminated timber arches for military chapels

Timber arches made up of 1x10-in. laminations have been used in the construction of several military chapels, avoiding use of critical materials. The gothic type arches shown above have a 37-ft. span and a rise of 26 ft. 9 in. Laminations in the arch members were made with scarfed ends, glued together and later milled, making each lamination continuous for the entire length of the curved member.

The base of each arch member is anchored by means of shear plates and steel angles through anchor bolts embedded in the foundation concrete; at the crown the two members are spliced together with plywood gussets and split ring connectors.



FSA Photo

Rammed-earth house almost complete. Rough-appearing walls may be painted, or finished with thin cement mortar for smooth surface.

Rammed earth offers housing solution

A means of supplying low cost permanent housing construction—old to the world at large but comparatively unused in America because of the abundance of other materials—has been perfected by a Washington architectural firm, in cooperation with the Federal Public Housing Authority.

The method is the use of rammed earth, which is available on the site of any proposed construction and is not affected by priorities.

As evidenced by houses constructed by these methods more than six years ago, the structures are permanent, can be adapted to any requirement of modern living convenience, and are of pleasing appearance and design.

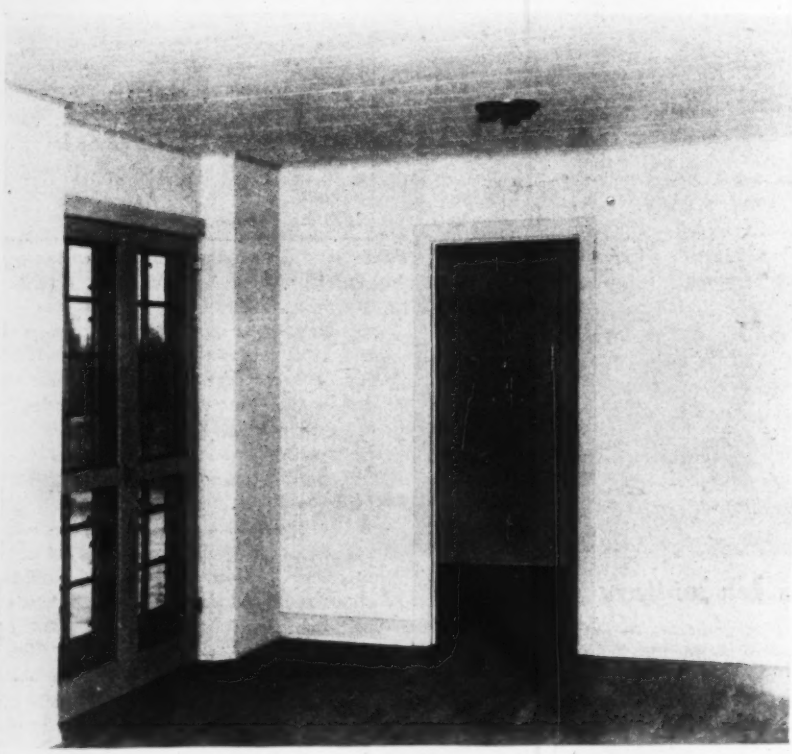
Such houses, according to Kastner & Hibben, architects, can be built for less than the cost of houses of standard construction having similar design and room capacity.

Construction requires few tools—wood forms, tampers and a "cracker" to break up the earth clods into fine particles and act as a mixer. Actually this last item is not even a necessity, since the mixing work can be done satisfactorily by hand.

The wood forms within which tamping is done should be of 2-in. stock, not more than 30 in. high, and not so long as to become unwieldy when handled by a four-man crew.

The forms consist of side panelling, clipped together with bolts extending through the wall material and later knocked out with drift pins, and bulkheads. As each section of the wall is completed, the forms are moved for re-use. For easy working conditions, width of the wall should not be less than 12 inches.

Mixture of earth used should not exceed 30 percent of clay to 70 percent of sand and gravel. The ratio of the sand to the gravel makes little difference in the strength of the wall, but a large amount of gravel will make for a rough, pitted exterior face. Best mixture is one of about one-sixth gravel.



Finished interior, after walls have been plastered and molding and doors installed. Wiring is carried in roof where possible, to avoid scoring walls after completion.

Finished side wall detail, showing the type of texture that can be given to walls if a finish other than the rammed finish is desired.

To this mixture, the architects recommend adding a small percentage of cement as a binder and finish, making the completed wall highly resistant to erosion. Four to eight percent of the cement should be mixed with the earth, but under completely dry conditions.

Moisture content before tamping should be about 12 percent.

The mixed earth is applied within the forms in layers of about three-in. depth. Setting takes place almost at once, and the wall will bear the immediate load of another section constructed atop of it. Complete curing—in the case of a wall with cement admixture—takes about five days.

The houses are designed to avoid, wherever possible, the joining of exterior walls and formation of "T's" with inside partitions. Windows normally are brought up to the capping plate or timber, although the material can be arched if needed.

Wiring in roof

Wiring and interior piping may be installed after completion of the walls by chasing them to provide space. Foundations may be earth or concrete spread-footings, and floors are usually concrete slabs.

Roofs are ordinary flat-roof design.

Bearing strength of the walls is about 1,000 lb. per sq.in. direct load (*ENR* July 9, 1936, p. 44).

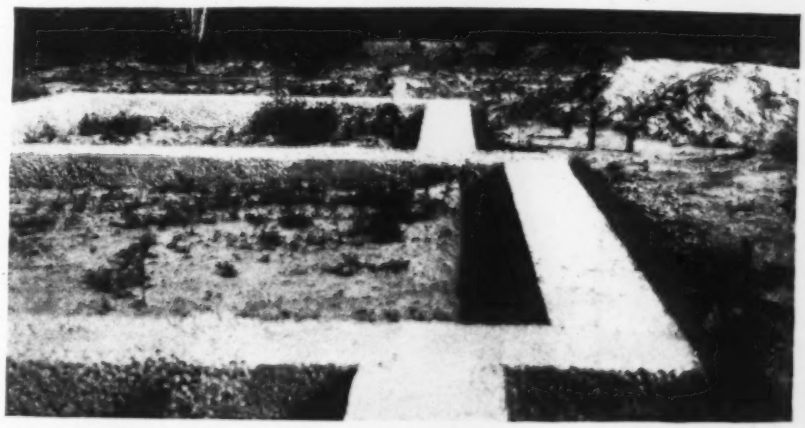
Rate of construction, using hand tamping, is about $\frac{2}{3}$ of a cu.yd. for each man in the crew per day. Machine tamping may speed up the work by three times that rate, although when an inexperienced crew is used hand-tamping is recommended.

According to FSA figures for units built at Birmingham, maintenance costs over a period of 6 years have been materially less than on many other types of dwelling structures.

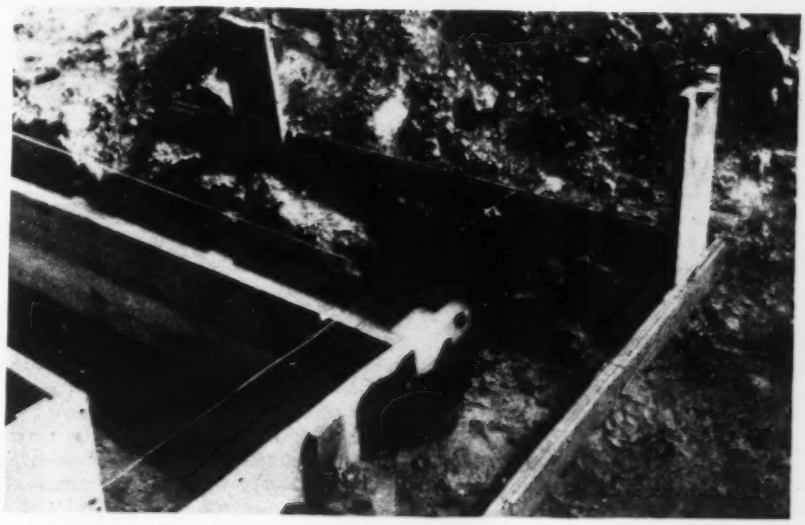
(For information as to structural properties see Bureau of Standards publication BHS 78.)

BMS 78

Forms being moved preparatory to ramming top section of wall. Note V-shaped hand rammer on working platform at lower left of photograph.



Rammed earth foundation footings are similar to ordinary concrete spread-footings. These show general floor plan of house to be built.



This detail of a corner of foundation footing shows smooth interior of wooden forms to give finished walls as smooth a preliminary finish as possible.

Sewage disposal facilities in nation adequate for public health protection

Federation of Sewage Works Associations is told that lack of materials for treatment plants may result in creation of nuisance conditions but public health will not be threatened.

Public health is not yet in danger, nor is it believed that it will suffer greatly from restrictions already imposed upon the extension of sewage disposal facilities, said A. M. Rawn, keynote speaker at the wartime conference of the Federation of Sewage Works Associations, held in Cleveland, Oct. 22-24, in conjunction with the Ohio Conference on Sewage Treatment.

Despite the fact that virtually all materials required in sewerage practice are unobtainable because of priority restrictions, Mr. Rawn, who is chief engineer and general manager of the Los Angeles County Sanitation Districts, stated that public health will be protected although some nuisances would be created.

"There will be some discomfort for the next few years because of nuisances," warned Mr. Rawn, "but it is not conceivable that sewerage conditions in this country will be permitted to reach a situation where public health is threatened."

At the meeting, which was attended by more than 400 engineers, operators and manufacturers of sewage disposal equipment, George J. Schroepfer, chief engineer of The Minneapolis-St. Paul Sanitary District, was elected president to succeed Arthur S. Bedell, chief of the bureau of sewage and waste disposal, New York State Department of Health. A. M. Rawn became vice-president, William J. Orchard, general manager of Wallace and Tiernan Co., Newark, was elected a director-at-large, and W. W. DeBerard was named treasurer.

Although 28 manufacturers had exhibits at the meeting, relatively little equipment was on display.

Dorr speaks

One of the highlights of the meeting was an address by John Van Nostrand Dorr, president of The Dorr Co., N. Y. who traced the origin of present-day sewage treatment equipment from developments in the mining field. Mr. Dorr, who graduated from Rutgers in 1894 as a chemist, was engaged in mining activities where he developed a mechanical classifier and thickener (clarifier), which revolutionized ore-treatment practice.

Among those who came to see these first machines in operation was a group of sanitary engineers attending the 1913 meeting of The American Public Health Association in Colorado Springs. They suggested the possibilities of applying mechanical devices to sewage treatment. Work in this field led to the installation of the first settling tank clarifier in 1920 at Bartow, Fla. Today, the largest clarifier installation in the world—72 units, each 125 ft. in dia.—is operating in the All-American Canal desilting works in California.

Providing for emergencies

Supporting the contention of Mr. Rawn that sanitary engineers had made adequate provisions for the national emergency, J. K. Hoskins, chief of the sanitation section, U. S. Public Health Service, said it was gratifying to report that practically all of the military areas were provided with suitable sewage treatment facilities for both domestic and industrial wastes.

Not only did the construction agencies of the military departments show an appreciation of the need t[o] protect sources of water supply and av[oid] excessive pollu[tion] of streams but sta[te] health depart[ments] also were activ[e] in stimulating local interest in sanitati[on] problems, said Mr. Hoskins.

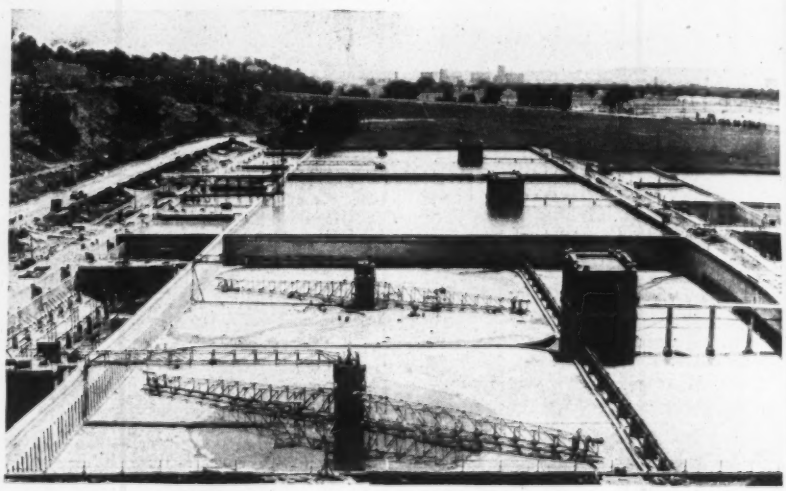
He also reported that Lanham Act funds, totalling $43,000,000, had been allotted for 220 sewerage and treatment projects in areas where war activities have overwhelmed normal municipal functions.

Priorities situation outlined

Neil J. F. Van Steenburg of the WPB Bureau of Governmental Requirements, told the Federation members that in accordance with a revision of policy on October 10, all applications for materials required in sewage disposal operations should be made to his bureau instead of the Power Branch of WPB. He gave warm praise to the Federation for its assistance in making a survey of the use of critical materials in the operation and maintenance of sewers and treatment plants.

Thomas Slaght, also of the WPB, reported that current estimates on the use of critical materials in the water and

(*Continued on p. 9*)



Kansas City water softening plant in operation

Kansas City's new water softening equipment, placed at the existing filtration plant, went into operation recently.

The plant began service at a time when the hardness in the raw water of the Missouri River was near minimum of 150 to 160 parts per million. From the outset, softened water has been delivered to the distribution system with the hardness of about 90 parts per million. In the winter, the softening range will be from 300 to 400 parts per million in the raw water to the same 90 to 100 parts per million in the delivered water.

A marked improvement was noted in the bacteriological quality of the softened water, according to Melvin P. Hatcher, chief engineer and superintendent of the city's water department. It appears likely, however, that this improvement is due for the most part to the continuous removal of sludge from the settling basins.

Above is a general view of the new installation, showing new flocculator and clarifier equipment being installed in existing basins.

The $900,000 project included construction of mixing tanks; a chemical storage and handling building; flocculator and clarifier equipment in existing basins and new chemical handling and sludge removing equipment.

Plans were prepared jointly by Black and Veatch, and the Burns & McDonnell Engineering Company, both of Kansas City.

Wide spread of labor unionization is predicted in field of public service

American Public Works Association urged by Clapp of TVA to adopt broad policies in dealing with public employees on labor problems.

Declaring that unionism among public employees is no longer an interesting theory but an accomplished fact, Gordon R. Clapp, general manager of the Tennessee Valley Authority, told delegates to the American Public Works Association at Cleveland last week that they must be prepared to deal realistically with a new era of employee relations in public management.

Some 235 members attended the 48th annual conference of the association, at which Henry L. Howe, city engineer of Rochester, N. Y., was elected president. Highlighted on the program was the appearance of Sir Ernest Simon, British Ministry of Works and Planning, who spoke on post-war reconstruction in Great Britain.

The situation outlined by Mr. Clapp is this: Public employees, like other groups of citizens have felt the impact of current trends in the cost of living, static wage levels, the unparalleled growth of employee-union participation in private enterprise and the threat of job insecurity. And there is increasing emulation by public employees of the methods and forms used by employees of private industry in their approach to labor relations. As far back as 1939, when an accurate survey was made, some 15 percent of all public employees already were members of unions.

"If we have the good sense to remember that public employees are human beings no different from employees of private enterprise, and we have the vision and wisdom to meet their aspirations halfway, great benefits can redound to to the public service and to the taxpaying public," he said.

Bulwark of opposition to recognition of unions and collective bargaining in the public service, continued Mr. Clapp, centers on two points: (1) Unionism is not permissible in public employment because employees cannot strike against the sovereignty of government; and (2) collective bargaining with signed contracts covering wages, hours of work, etc., is not legal in the public service.

In answer to the first point, he said it should be clear that no public manager of municipal, state or federal agencies confronted with a mass strike, can be assured that the theory of governmental immunity, backed even with the best legal counsel, will cause collapse of a strike. And, so far as legality of collective bargaining is concerned, this can be dismissed because there already exist many such agreements.

Half the construction industry in England will be engaged on house building in the post-war period, according to Sir Ernest Simon, who is visiting this country to study methods and materials used in housing operations.

Henry L. Howe, city engineer of Rochester, N. Y., is the new president of the American Public Works Association.

England's experience following World War I, when a "homes for heroes" program resulted in a big housing boom, followed by a slump, leads to the conclusion that a "timed work" program be adopted if such ups and downs in the economic cycle are to be avoided. It will be necessary, therefore, for the government to exercise control by means of a public housing program, said Sir Ernest.

In commenting on wartime problems in refuse disposal practices, two speakers spoke of the increased load being put on incinerators in disposing of quantities of spoiled food. Carl Schneider, consulting engineer of New Orleans, said that his city has great difficulty in contending with the "enormous" amounts of such material. And Harold D. Bradley, street commissioner, Toronto, Ont., Canada reported that the incinerator plants in his city were receiving spoiled edibles that would total 25,000 tons this year.

Officers and directors

In addition to Mr. Howe, who succeeded Frederick T. Paul, city engineer of Minneapolis, as president, the following officers were elected; first vice president, Frederick R. Storrer, city engineer, Dearborn, Mich.; second vice president, Lt. Col. S. M. Weaver, U. S. Corps of Engineers, Washington, D. C.; and treasurer, Lt. Samuel Baxter, U. S. Corps of Engineers, Philadelphia.

E. A. Fisher, city engineer of Lakewood, Ohio was elected to a director's post in the association. Mr. Fisher also received the Veteran's Award, along with E. L. Kuebes of Milwaukee; Leon A. Smith of Madison, Wis.; E. A. Wood, Winnipeg, Manitoba, Can., and five members of the Rochester, N. Y. department of public works, N. E. Bryan, R. W. Post, H. J. Samenfink, John Stuck and A. L. Vedder. The award is given annually to members who have been in the employ of one city for 30 years.

Abstracts from papers given in the technical sessions of the meeting will be published in the Nov. 19 issue of *Engineering News-Record*.

WPB orders cities to salvage tin cans

The War Production Board has issued an order making it mandatory for all cities with populations over 25,000 to keep tin cans separate from refuse, and deliver these cans to shredding, detinning or proper precipitation plants, R. K. White, chief of the general salvage section, WPB told members of the American Public Works Association.

Calling for renewed effort in the salvaging of such cans from municipal refuse, Mr. White said that the order—known as Supplementary Order M-72-A—was issued October 20. It becomes effective on November 4 in the states of California, Kansas, Missouri and Texas; in these states the cans will be sent to nearby copper producing centers where they will be shredded and used for precipitation of copper.

On November 17, the order becomes effective in 15 more states of the northeastern seaboard and the Middle West. Can salvaged in these areas will be sent to the detinning plants for recovery of tin and scrap iron.

Southeastern states will not be ordered to separate cans until detinning plants are completed in that area.

Collection of cans from users, and shipment to plants so far has resulted in only a small percentage of the cans going back into the war effort. Mr. White said that tests reveal that only about 32 percent of the cans shipped into a town are being recovered by salvage operations.

He added that every gross ton of the cans contains 2,218 lb. of scrap iron, and 22 lb. of tin. These materials are wasted if the cans are put through household incinerators or sent to municipal garbage dumps or incinerators.

MEN AND JOBS

A. F. Mohan, of Birmingham, Ala., has been appointed superintendent of equipment for the Alabama State Highway Department, succeeding **Herbert Quinn,** who recently joined defense forces.

Norman G. Platts, who has been in charge of mosquito control work for the St. Lucie County, Fla., sanitary district for more than fifteen years, has been appointed an engineer in the U. S. Public Health Service.

Maj. William J. Green has been assigned as area engineer at the Oak Ordnance Plant, near Illiopolis, Ill., replacing **Maj. Gen. E. Hofto,** who has been transferred to Manhattan State College, Manhattan, Kans., as assistant professor of military science and tactics.

Robert C. Mills, formerly resident Washington highway engineer at Vancouver, has been appointed Pacific County engineer with headquarters at South Bend, Washington.

Henry J. Miles, formerly assistant professor of civil engineering at the University of Florida, is now at the College of Engineering, University of Southern California, as associate professor.

Promotion of **Grant P. Gordon,** of Fort Lewis, Wash., to the rank of major, and appointment to the Army Specialist Corps with an assignment to the Corps of Engineers for **Capt. E. Ahlberg,** has been announced by the Seattle, Wash., engineers office. Maj. Gordon will continue to serve as assistant to the area engineer at Fort Lewis, while Capt. Ahlberg will serve as assistant to the Olympic area engineer.

Robert Meiklejohn, professor in the engineering department of Ohio State University, has been appointed active chairman of the Department of Engineering Drawing, succeeding **Prof. Thomas E. French,** who retired recently.

Frank B. Hayes, Umatilla County, Ore., engineer since 1934, has resigned to accept appointment as Pendleton, Ore., city engineer.

Walter V. Thomas has been appointed county engineer for Leavenworth County, Kans., succeeding **Kenneth Stone,** who recently entered Army service.

Col. H. A. Montgomery, formerly district engineer at Tulsa, Okla., has been ordered to Canada to assume command of a division office of the northwest service command. **Lt. Col. Bruce D. Rindlaub,** who has been assistant to Col. Montgomery, will act as district engineer at Tulsa.

Tim DeJong, Clatsop County, Ore., surveyor and civil engineer, has entered the Civil Engineering Corps of the Navy with a rank of lieutenant.

E. T. Martin, formerly county engineer for Ringgold County, Iowa, has been named engineer for Cass County, with headquarters at Atlantic. He succeeds **Gilbert N. McQuern,** who entered war service recently.

Maj. Robert C. Moffitt, who has been area engineer for the Corps of Engineers at Yakima, Wash., has been transferred to Edmonton, Alberta, to head a new area office being established there.

Maj. W. C. Strecker, area engineer for the Sunflower Ordnance Plant in Kansas, has been assigned as area engineer at an air base in Nebraska.

Lieut. James A. Bentley, formerly assistant public works officer at the Jacksonville, Fla., naval air station, has been assigned to duty with the Navy's construction battalions.

William C. Olsen, Raleigh, N. C., civil engineer, has been employed as resident supervising engineer for the $1,200,000 King's Bluff water supply project being undertaken for Wilmington, N. C.

R. E. Woodward, Pacific County, Wash., engineer since 1933, has resigned to become an associate engineer with the Corp of Engineers, stationed at Everett, Wash.

M. H. Anderson has been named sanitary engineer at Sioux City, Iowa, for the U. S. Public Health Service.

Cecil L. Longson, public works superintendent and city engineer of Burlingame, Calif., has accepted an appointment as engineer in charge of surveys on one of the units of the new Alaskan highway.

Lawrence Whearty, civil engineer of Topeka, Kan., has been commissioned a first lieutenant in the Army Specialist Corps.

R. C. Frye, maintenance office engineer for the Iowa State Highway Commission at Des Moines, has been commissioned a lieutenant in the Navy, and has reported for duty to Norfolk, Va.

Ervin L. Krebes, assistant city engineer of Milwaukee, Wis., has received the "veterans" award of the American Public Works Association, at the annual convention banquet at Cleveland, Ohio.

Fred F. Williamson, county engineer for Morris County, Kansas, has been granted a six months leave of absence to work as a civil engineer on a war project in Kansas.

Capt. Charles M. Pickett, of the Corps of Engineers, recently stationed at Camp Butner, N. C., has been assigned to the Massachusetts Institute of Technology as a professor of military science and tactics.

Col. Stanley L. Scott, division engineer of the Southwestern Division, Corps of Engineers at Dallas, Texas, has been ordered to overseas service. **Col. Robert R. Neyland,** formerly district engineer at Norfolk, Va. will succeed Col. Scott.

Chester J. McGrane has been appointed special layout engineer in the Milwaukee Department of Public Works to succeed **Harry B. Nelson** who was promoted last spring to the post of superintendent of street sanitation.

J. Frank Roberts, chief hydraulic engineer for the Tennessee Valley Authority, has been appointed manager of the Allis-Chalmers Manufacturing Co's hydraulic turbine department, succeeding **Dr. William Monroe White** who has retired.

Blake R. Van Leer on leave as dean of the School of Engineering at North Carolina State College, has been promoted to the rank of lieutenant colonel in the Services of Supply.

Col. H. A. Montgomery, chief of the Tulsa, Okla., District, U. S. Engineers, for the past three years has been assigned to command the division office of the northwest service command with headquarters at Whitehorse, Yukon territory, Canada.

F. Charles Starr, director of the Detroit office of the Federal Public Housing Authority since last March, retired from the post Oct. 24.

Irwin Brooks Rutledge, assistant engineer of surveys and plans in the Alabama State Highway Department has reported for active service with the U. S. Army with the rank of major.

George Cobb, Baltimore, Md. chief engineer and **Abel Wolman,** president of the American Water Works Association, have been named to a committee appointed by Mayor Howard W. Jackson to consider planning for the post-war period.

Sewage disposal facilities seen adequate

(Continued from p. 6)

sewerage fields reveal that new construction is requiring almost three times as much material as goes into maintenance.

Air raid warnings

Talking on civilian defense measures at the Federation meeting, William A. Stinchcomb, director of the Cuyahoga County defense council, said that complete assurance should not be placed on sirens to warn people of air raids.

He pointed out that in every city there were many "dead" spots where sirens would not be heard, a situation that is worse in winter time when doors and windows of houses are closed.

F.S.W.A. 1943 Staff

A complete listing of officers elected to the 1943 board of control of the Federation of Sewage Works Associations follows:

President, G. J. Schroepfer; vice president, A. W. Rawn; treasurer, W. W. DeBerard; delegate at large, W. J. Orchard; secretary, W. H. Wisely. Executive committee—G. J. Schroepfer, D. E. Berry, H. E. Moses, D. S. McAfie, and Comdr. J. K. Hoskins.

Honorary members—A. S. Bedell, New York; Julius W. Bugbee, Worcester, Mass.; Langdon Pearse, Chicago, Ill.

At a meeting of the board of directors, it was decided to hold a conference next year in Chicago.

Extracts from papers presented at the technical sessions will be published in the Nov. 19 issue of *Engineering News-Record*.

Quick repair restores vital Iowa bridge

An ingenious plan for restoring a damaged vertical steel compression girder in the center span of a 600-ft. bridge across the Des Moines River near Des Moines, Ia., permitted re-opening of the structure within a few days after damage was done despite original predictions that repairs would take several months.

The bridge, one of the most heavily traveled in Polk County, was made dangerous when a truck crashed into the compression girder, bending the steel channels and breaking two upper plates. The bridge floor sagged 6 to 8 in. The accident also endangered a large natural gas main suspended beneath the floor.

Bill Easter, bridge construction engineer, proposed the use of jacks and cables from the floor of the structure to pull the compression girder and the top chord of the structure back to normal position, where welders closed the gap and installed reinforcements.

County engineer Frank O. Laing, shown above inspecting the damaged girder, said the cost of the repair was less than $1,000.

Plan unique bridge over South American river

John A. Roebling's Sons Co. has completed fabrication of parts for an 1,185 ft. aerial transporter bridge across the Esparitu Santo River on the boundary line of Brazil and Bolivia, in the virtually unexplored jungle regions of the Matto Grosso.

William A. Reeve, veteran Roebling engineer, has already left Trenton to become construction supervisor on the job, with the title of resident engineer for the Compania Tecnico-Commercial Boliviana, which was awarded the contract by the Bolivian Ministry of National Defense.

The bridge is described as a combination tramway and suspension bridge. A tram car, geared to a two-cable track and capable of carrying 50 persons or a seven-ton truck will provide the means of conveyance across the river. Two 100-ft. towers will support the tramway cable and the compensating suspension cables.

The bridge is expected to solve a problem of transportation in formerly inaccessible regions.

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FWA awards contract for waterworks project

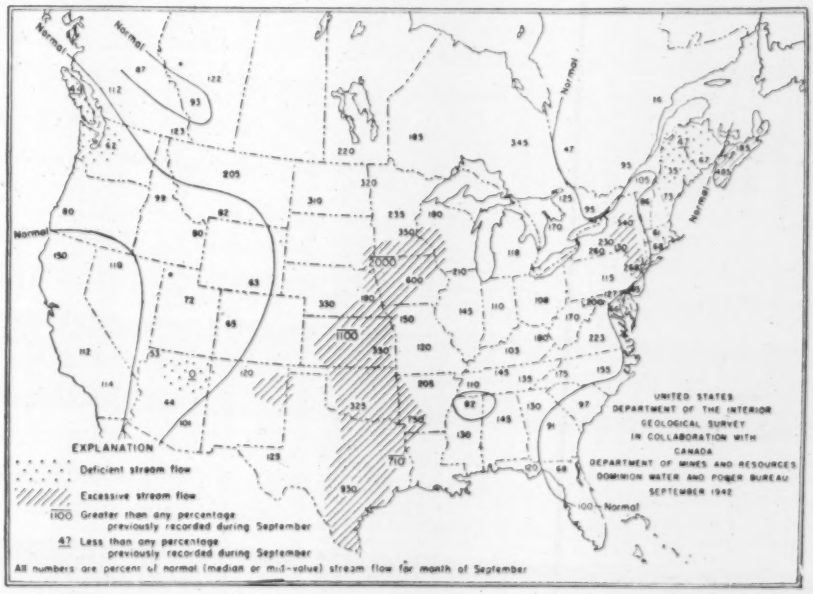
The Federal Works Agency has awarded a $1,268,000 contract to A. H. Guyon Co., Charlotte, N. C., for extension and improvements to the Mobile, Ala., waterworks system. Major units to be installed include a filtration plant of 20,000,000 gpd capacity, and two new mains.

Ground water conditions generally favorable for third consecutive month

Ground water conditions throughout the United States and in most of Canada were reported favorable for the third consecutive month in the regular monthly report for September. Similar conditions had been noted in July and August.

Additionally, the outlook for surface water supplies is good to excellent in both the United States and Canada, excepting in the Pacific Northwest, Arizona, New England, and in a fringe along the Atlantic Seaboard.

The survey noted marked improvement in stream flow throughout Eastern Ontario, Quebec and Nova Scotia; stream flow in excess of normal in Southern Canada West of Quebec and greatly in excess of normal throughout the United States, east of the Rocky Mountains, excepting New England and an Atlantic coastal fringe; floods in central western states; contiuation of above normal stream flow in California and Nevada.


Normal
EXPLANATION
Deficient stream flow
Excessive stream flow
1100 Greater than any percentage previously recorded during September
42 Less than any percentage previously recorded during September
All numbers are percent of normal (median or mid-value) stream flow for month of September
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
IN COLLABORATION WITH
CANADA
DEPARTMENT OF MINES AND RESOURCES
DOMINION WATER AND POWER BUREAU
SEPTEMBER 1942

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MEN AT WORK

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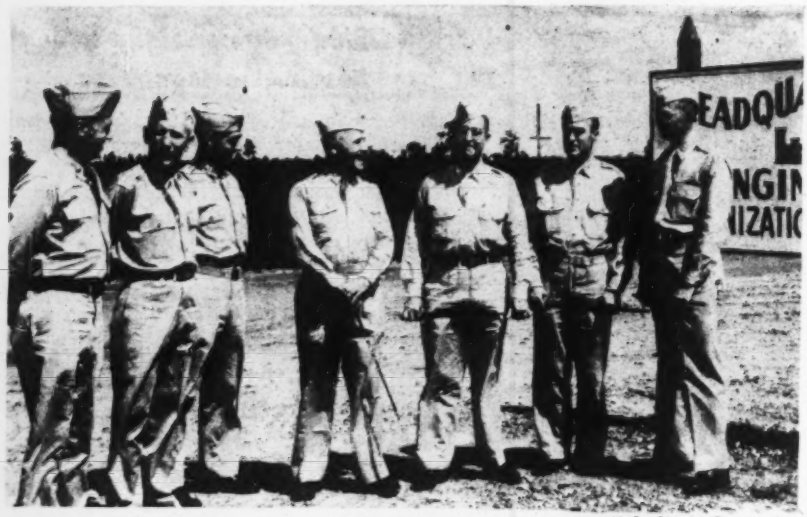
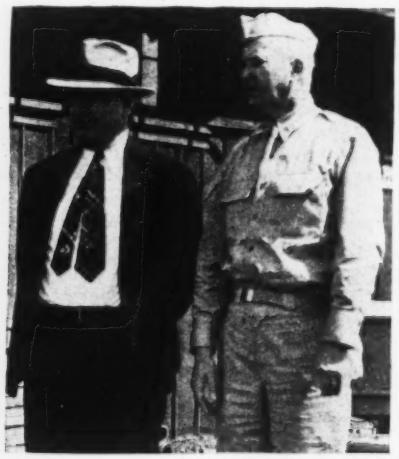


U. S. Signal Corps photo

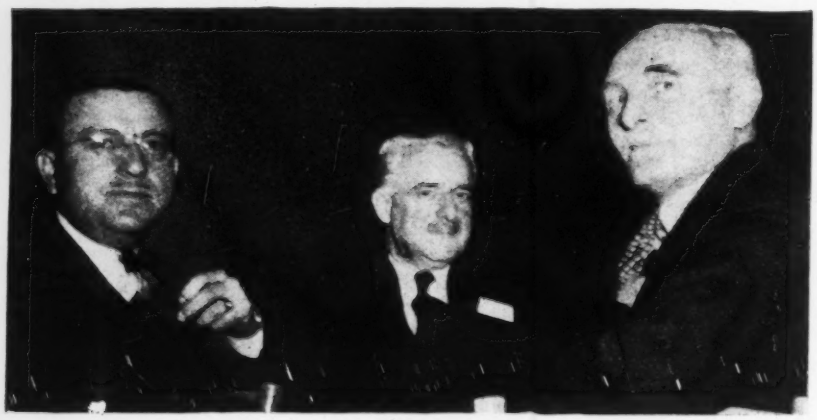
Above: The staff of the Army's Engineer Training center at Camp Claiborne, La., are, left to right: MAJ. JOHN E. SWIFT, surgeon; MAJ. K. D. WILLOUGHBY; CAPT. G. D. TARBOX, aide-de-camp; BRIG. GEN. JOHN W. N. SCHULZ, commanding general; COL. M. G. MARTLING, executive officer; MAJ. W. H. E. DUNHAM, and MAJ. T. C. COMBS. The occasion is an informal, after luncheon field conference.

Right: JOHN B. TAYLOR of Taylor Brothers Construction Co., Birmingham, Mich., one of the paving contractors on the Detroit Industrial Expressway, is supposed to be in a serious discussion with L. P. SCOTT, (right) senior highway engineer for the Public Roads Administration at Chicago. Actually, a fishing trip was being planned for some week-end.



Left: I. N. TOWNE resident manager for the Massman Construction Co. and Hutter Construction Co., prime contractors on the Milwaukee Ordnance Project, discusses progress of the work at the big plant with MAJ. R. C. GREGORY, of the Corps of Engineers, who is area engineer. Mr. Towne was formerly engaged on the St. Louis Ordnance plant.

Below: (l. to r.) LESLIE E. WEST, chief engineer, Elizabeth Valley (N.J.) Joint Meeting; NATHAN I. KASS, engineer in charge, sewage disposal operations, New York City; and DR. WILLEM RUDOLFS, chief, division of water and sewage research, New Jersey Agricultural Experiment Station, discuss sludge disposal.



Right: RALPH C. GRAHAM, formany years an employee of the City of Davenport, Iowa, is now superintendent of public works for the city, engaged in important municipal problems.

Press Assn. photo

Above: COL. ROBERT REESE NEYLAND—still "the major" to many who knew him during his 16 years as football coach at the University of Tennessee—is the new U. S. Army district engineer at Dallas, Tex. Col. Neyland was district engineer at Norfolk, Va., until a recent transfer was ordered, supervising some 500 projects of all types.

Above: Witnessing the signing of Los Angeles' new building code are, left to right: (standing) RAY J. DAUM, president of the building and safety commission; E. T. HEITSCHMIDT, chairman, construction industries building and safety code committee, and EARL S. ANDERSON, of the chamber of commerce. Seated are MAYOR FLETCHER BOWRON and F. J. CONNOLLY, manager, Associated General Contractors.

Right: A. E. BUDELL, president of the Industrial Engineering Co., is in charge for that organization on construction of a large plant in the New York City area to house a war product manufacturing company. L. G. MERTZ, JR. (right) is construction manager for the Mergenthaler Linotype Co., which will operate the new plant on war orders.

Left: STEPHEN J. MICHUDA, at left, engineer of bridges for Chicago, inspects pier construction on the new lift bridge over the South Chicago River. Checking the work with Mr. Michuda is CHARLES COLLINS, engineer in charge of the bridge construction work. The structure will provide an additional traffic artery over the heavily-used stream.

Below: Attending a recent luncheon meeting sponsored by the International Harvester Company in Chicago were, left to right: FOWLER McCORMICK, company president; CAPT. E. A. EDSON, chief of the materials and equipment section, Corps of Engineers, Chicago, and LT. GEORGE SCHANTZ, Corps of Engineers, Chicago.

Left: E. D. STAPP, engineer in the Department of Public Works of Davenport, Iowa, working with R. C. Graham (on opposite page). Mr. Stapp has been with the city 19 years.

This Week on the Scrap Front

The nation needs scrap metal—17,000,000 net tons of it—by Dec. 31 of this year to enable the steel mills to meet the heavy demands of a rapidly expanding war industry. To get this scrap from its resting place in junk yards, contractors' lots and city storage yards, to the mills, is a job which the engineering and construction industry can do well. Here are some of the developments of last week:

An increase in the amount of scrap iron and steel obtained from structures where the cost of demolition exceeds the value of the metals has been assured with the announcement of a working relationship between the Conservation Division's Special Projects Salvage Section and War Materials, Inc., newly organized at the instance of the Metals Reserve Company, a subsidiary of the Reconstruction Finance Corporation.

The Special Projects Salvage Section was established to expedite the movement of iron and steel scrap available in large structures where salvage is impeded by legal, financial, and other obstacles.

Projects will be located and investigated by the field force of the Special Projects Salvage Section of the War Production Board, which also will advise the owner regarding the transfer of title to War Materials, Inc.

War Materials, Inc. will engage and pay contractors to demolish the structures.

Many of the problems that impede the demolition of large structures are other than financial. The Special Projects Salvage Section has, since March, arranged for the movement of 1,800,000 tons of iron and steel scrap, mostly without financial assistance, except in the case of street car rail handled by the Work Projects Administration. Work Projects Administration is continuing to handle projects of this type but where it does not have labor available, War Materials, Inc., will take care of the demolition.

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Citizens of Greenville, Miss. were proud of a sign at the entrance to their city which read "Welcome to Greenville—Queen City," but are proudest of this sign as a contribution to the scrap drive.

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The famous Cunningham sanitarium, a huge sphere that served as an experiment in oxygen therapy at Cleveland, Ohio, 14 years ago, is being demolished as a scrap drive contribution. The 64-ft. high, million dollar ball is expected to yield more than 1,000 tons of scrap.

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The North Carolina Highway and Public Works Commission has announced that it will volunteer the use of a truck in hauling scrap in the state's salvage drive. Due to the pressing need in getting highways ready for the winter, no hauling will be done until the drive is over.

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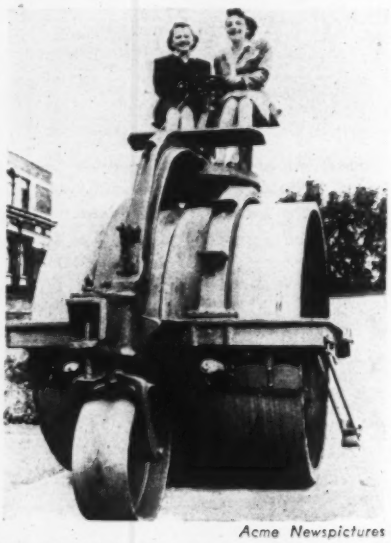
The city of Baltimore, last week threw a 73-year old bridge, the highest structure over Jones Falls on the southern tip of Lake Roland into the drive. Erected in 1869 the bridge has long been unused. Officially, Baltimore said it is preparing to turn over to the War Production Board two idle water towers that have been landmarks in the northern and northwestern sections of the city for many years. The towers are expected to give 125 tons of steel.



Acme Newspictures

This 10,000 lb. tricycle horse-drawn road roller has long been a museum piece on exhibition in front of Austin-Western Co.'s plant at Aurora, Ill. It will reenter active service, in the capacity of war material, after being broken up for scrap.

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Still another old bridge going into the scrap heap as a municipal contribution is the Central Viaduct at Cleveland, Ohio, built in 1888.

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Defense officials at Charlotte, N. C. are investigating the feasibility of salvaging parts of steel bridges which once spanned the Catawba river near Charlotte, but which have been lying in the mud on the bottom of the stream since disastrous floods in 1916.

Styer warns AGC of hardships to come

Maj. Gen. W. D. Styer, [illegible] of staff of the Services of Supply, [illegible] the keynote address at the fall meeting of the governing and advisory boards of the Associated General Contractors of America, held in Chicago last week. The session was one of the largest and most important in the association's history. Forty-five of the organization's 90 or more branches and chapters were represented.

General Styer did not mince words in telling the assembled contractors and engineers that the worst was still in the offing in the construction field.

He stated that the Army's construction program from August, 1940 to September, 1942 has cost $9,300,000,000, but added that the Army "is about caught up" with the construction. There will be some additional housing, some airfields, perhaps a very few manufacturing plants, he said, but these will be only a small percentage of previous work.

Styer warned also that draft deferments of key men will be made only in special cases; that additional equipment will be taken for government use; that material, parts and supplies will be increasingly harder to get; and that probably some construction organizations will "fold up."

H. O. Penn, of the construction machinery branch of the War Production Board, discussed the registration with WPB of the major items of all used construction machinery in the hands of private and public owners. He emphasized that it is the purpose of the WPB to penetrate the used equipment holdings of all public agencies as well as those of private owners to insure that all available equipment is put to work in the war effort on a uniform and equitable basis, regardless of ownership.

The pending OPA regulations covering construction were fully discussed. It was the concensus that the regulations would require greatly increased paper work, without discernible benefit to the war effort.

At a final session, the governing board nominated Oscar B. Coblentz, of the McLean Contracting Co. of Baltimore, Md., as president for 1943. Mr. Coblentz is now the association's vice-president, as well as chairman of the legislative committee.

William Muirhead, of the William Muirhead Construction Co., Durham, N. C., was nominated for vice-president.

The Santa Fe Railroad announced recently that four branch lines of road totalling 183 miles in Kansas and Oklahoma will be taken up and dismantled for use in the war effort.

Connecticut cuts road bureau appropriation

Priority restrictions and road construction bans have forced the Connecticut State Highway Department to cut its total budget to $12,000,000 for the coming year, as compared to about $20,000,000 in past years.

Commissioner William J. Cox said major construction on all highways will soon be halted, and only urgent repairs will be made during the war.

Of the total appropriation, $6,000,000 will be expended on projects outlined in statutory provisions passed by the General Assembly, including $1,000,000 for the improvement of dirt roads. The budget also includes $2,750,000 for the purchase of new equipment, supplies, land rights, buildings and general improvements of department facilities.

Consolidate stores control

In line with general economy moves, Commissioner Cox said that operation of all departmental district equipment and materials stores will be taken over by his office to bring about a closer supervision of district maintenance.

Formerly, equipment control methods allowed the district maintenance supervisor to requisition equipment types of materials for which they had a need. Under the new central control plan, district supervisors will be required to submit "purpose charts" when making requisitions for stores or any new machinery or equipment.

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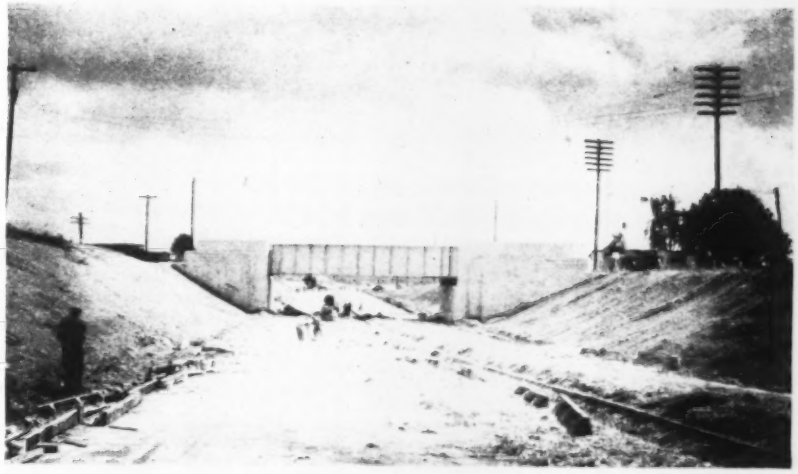
E. G. Williams dies, construction engineer

Edward Gilbert Williams, 77, retired vice president and treasurer of the J. G. White Engineering Corporation, of New York City, died October 22.

Mr. Williams had been advisory engineer to the Yale Committee for construction of the Yale Bowl, and was chief engineer for the contractors who built the Pennsylvania Railroad tunnel under the city of Washington, D. C.

Born in Essex, Conn., he became resident engineer of the Burlington & Missouri River Railroad after his graduation from the Sheffield Scientific School of Yale University and was general manager and chief engineer of the Caribbean Manganese Company, chief engineer of Continental Jewell Filtration Company and chief engineer for construction of the Long Island Motor Parkway.

He became associated with the J. G. White Engineering Corporation in 1909 as construction manager and from 1913 until his retirement in 1941 was an officer and director of the company.



Ohio builds railroad overpass

Nearing completion is this new steel girder bridge with concrete deck and concrete abutments, located on U. S. Route 30, in Wayne County, Ohio, some miles east of Worcester. Built by the Ohio State Highway Department to carry two tracks of the Pennsylvania Railroad over the roadway, the bridge construction differs somewhat from other bridges of this character in Ohio, in that the timber railroad ties are imbedded in the concrete deck, thus eliminating ballast.

Passing underneath the structure, when completed, will be two 24-ft. lanes of concrete roadway, with two 4-ft. sidewalks and a 4-ft. center strip, making a span of about 60 ft. for the roadway. Due to the skew of the structure, the total length of the bridge is 74 ft.

Frank Grimes of Ashland is general supervisor, with J. E. Roush as project engineer on the job. W. H. Ringwald & Sons Co., George B. Herrick & Son and the Purdy Construction Co. are the general contractors.

Contractors get first Navy "E" award

Designation of a group of eight Pacific naval air base contractors to receive the Army-Navy "E" award for outstanding performance on the construction of new air and fleet bases on remote islands of the Pacific, and of major additions and improvements to naval stations in Hawaii, marks the first time that construction organizations have been officially recognized for this honor.

Heretofore conferred only upon industrial plants, the award gives the Turner Construction Co., the Hawaiian Dredging Co. Ltd., the Raymond Concrete Pile Co., the Morrison-Knudsen Co., J. H. Pomeroy & Co., W. A. Bechtel Co., the Utah Construction Co. and the Byrne Organization the right to display the "E" at their Pacific field headquarters.

BECAUSE of the increased interest in engineering, Northwestern University's Technological Institute of Evanston, Ill., has enrolled by far the largest class since it opened three years ago. About 340 freshmen were chosen from the 750 applicants. Among the freshmen is Miss Winifred Howard, daughter of a civil engineer, who is the first woman to be enrolled as a cooperative student at the Institute. She plans to take a five-year civil engineering course.

City to sell heavy roadbuilding equipment

The Department of Purchase of the City of New York on Nov. 16 will receive sealed bids on miscellaneous road equipment, according to Albert Pleydell, Commissioner.

Equipment to be sold includes 18 steam rollers, varying in weight from five to ten tons, both tandem and three-wheel type. Several of the three-wheel type have scarifier attachments, all of the rollers are said to be in excellent condition and equipped with miscellaneous repair parts. Also to be sold are two Fox snow loaders with miscellaneous repair parts.

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Put 50,000 housing units under construction

More than 11,000 housing units a week were placed under construction in the public war housing program during September, Commissioner Herbert Emerich, of the FPHA, reported recently. Total for the month was 50,435.

Housing units completed during September under the war housing program totalled 14,933, and the number of new units assigned for development during the month was 62,102.

OBITUARY

Lt. Col. Charles W. Burlin, formerly district engineer at Philadelphia, Pa., for the Corps of Engineers, died recently at Washington, D. C. Col. Burlin served as executive officer for the Philadelphia district from 1935 to 1938, and became district engineer in 1938.

Daniel L. Martin, 56, a construction engineer for the Ohio Fuel Gas Co., died Oct. 16 at Medina.

Maj. C. R. Townsend, Quebec, Canada, civil engineer, died recently overseas while on army service.

Morrison M. Styles, 54, civil engineer and superintendent of the sewage disposal plant of Radnor and Haverford townships, Pa., died Oct. 19.

Howard M. Anderson, 72, superintendent of maintenance for the St. Clair County, Ill. highway department for the past 22 years, died Oct. 20, at Belleville, Ill.

Payne Darlington, 80, who had been associated with many engineering enterprises in Alaska, China and western states, died recently at his home in Tarpon Springs, Fla.

John C. Mackinnon, 58, civil and consulting engineer of Moncton, N. B. and recently a member of the engineering department of the Dominion Department of National Defense, died Oct. 19 in a Montreal hospital.

Joseph M. Duffy, 65, superintendent of the Miami, Fla. Water Company for nearly 40 years, died recently there.

Frederick Coutts, 72, formerly water commissioner for South Milwaukee, Wis., died Oct. 20.

B. P. Robertson, for 11 years superintendent of the Villa Rica, Ga. water works, died recently at Carrollton, Ga.

Earl H. Payne, retired civil engineer formerly with the American Steel & Wire Co. at Cleveland, Ohio, died Oct. 19 at Sarasota, Fla.

Peter Voido, 61, building contractor of Columbus, Ohio, died there Oct. 21.

Frank M. Mohr, 63, contractor of Memphis, Tenn., died at a local hospital Oct. 23.

Sam Malkin, 59, Memphis, Tenn. contractor and head of the Memphis Construction Co. and the Tennessee Lumber & Building Material Co., died Oct. 21.

Rochester plans subway line extension

Extension of the Rochester, N. Y., city subway from the Rowlands Station to Monroe Avenue—a distance of 1200 ft.—has been authorized by the City Council. The extension will be a single track line and will use no new materials, with the possible exception of ties. Tracks, switching points, signals and the like are available in the city's yard.

Officials explained that the measure is being pushed as a war emergency matter to relieve city bus congestion and enable suburban buses to transfer passengers to the subway for speeding transit to downtown areas.

WPB establishes Canadian priorities division

To handle United States priorities problems as they affect Canadian use of U. S. materials and products, the War Production Board has established a Canadian division in Ottawa. The division will further effectuate the policy of assisting firms engaged in war production on both sides of the border on an equal footing with respect to distribution of materials.

Under the Production Requirements Plan some 1000 Canadian companies engaged in war production are receiving priority assistance in obtaining materials from the United States.

CONTRACTS AND CAPITAL

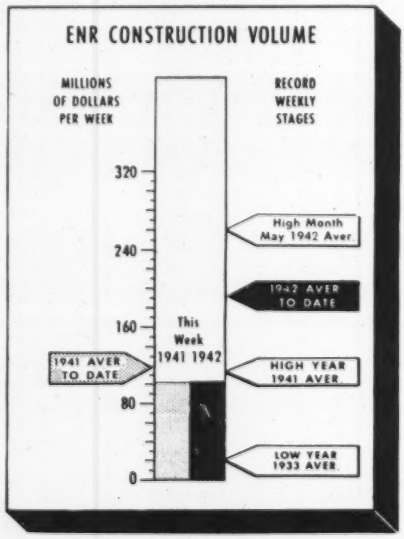
ENGINEERING CONSTRUCTION volume for the week totals $103,282,000, an increase of 17 percent over the preceding week, and 1 percent above the corresponding 1941 week. Both private and public construction are higher than a week ago, the former climbing 69 percent, and the latter 15 percent. Private work, however, is 79 percent below a year ago, but public construction is up 44 percent. Federal construction is 12 and 110 percent higher, respectively, than last week and last year.

The current week's construction brings the 1942 volume to $8,324,585,000 an increase of 59 percent over the $5,250,210,000 reported for the 44-week period in 1941. Private work, $511,781,000, is 52 percent under the period last year, but public construction, $7,812,804,000, is 87 percent higher as a result of the 136 percent climb in federal work.

In the classified construction groups, gains over a week ago are in waterworks, sewerage, industrial and commercial buildings, and unclassified construction. Increases over the 1941 week are in waterworks, sewerage, public buildings, streets and roads, and unclassified construction.

New capital for construction purposes for the week totals $1,100,000. This compares with $158,676,000 for the corresponding 1941 week. The current week's new financing is made up of $800,000 in state and municipal bond sales, and $600,000 in corporate security issues.

New construction financing for the year to date, $9,555,998,000, is 57 percent higher than the $6,089,206,000 reported for the 44-week period last year.



CONTRACTS
(Thousands of dollars)

	Week Ending Oct. 30 1941	Oct. 22 1942	Oct. 29 19[illegible]
Federal	$ 42,880	$ 80,235	$ [illegible]
State & Municipal	23,455	3,335	[illegible]
Total public	$ 66,335	$ 83,570	$ [illegible]
Total private	36,360	4,425	[illegible]
TOTALS	$102,695	$ 87,995	$[illegible]
Cumulative 1942 (44 weeks)			$8,324,585
1941 (44 weeks)			$5,250,210

Note: Minimum size projects included are: Waterworks and waterways projects, $[illegible]; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

NEW PRODUCTIVE CAPITAL

	1941 44 weeks	Cumulative 1942 44 weeks
NON-FEDERAL	$1,263,088	$[illegible]
Corp. Securities	322,119	[illegible]
State & Mun.	384,979	[illegible]
U.S.H.A. loans	30,399	[illegible]
R.E.A. loans	100,500	[illegible]
R.F.C. loans	262,091	[illegible]
Fed.-Aid—Highways	163,000	[illegible]
FEDERAL	$4,826,118	$8,[illegible]
TOTAL CAPITAL	$6,089,206	$9,555,[illegible]

ENR INDEX NUMBERS

Index Base = 100		1913	1926
Construction Cost	Oct. '42	282.44	[illegible]
Building Cost	Oct. '42	225.90	[illegible]
Volume	Sept. '42	544	258

FHA MORTGAGES

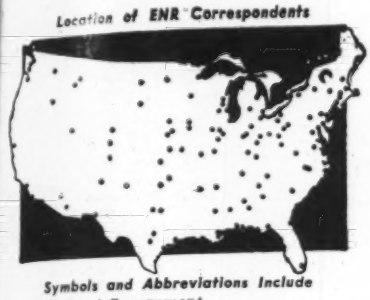
	Week Ending Oct. 25 1941	Oct. 17 1942	Oct. 25 19[illegible]
Selected for appraisal			
Title II	$21,366	$5,150	$[illegible]
Title VI	$3,588	$17,718	$19,[illegible]

*Subject to revision.

CONSTRUCTION REPORTS

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York
ELSIE EAVES, Manager *SCOTT McLEOD, Statistician*
(Daily service also available—Write for details)

Location of **ENR** *Correspondents*



Symbols and Abbreviations Include

† Federal Government
★ Project of $500,000 or over
ENR Engineering News-Record
CD Engineering News-Record Construction Daily
A-E-M Architect — Engineer-Management type of contract.

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger; water supply, earthwork, waterworks $15,000; other public works, $25,000; industrial buildings, $40,000; other buildings, $150,000.

Classes of Construction

(Named in order of Listing)

Water Supply
Sewers, Waste Disposal
Bridges, Grade Cross'gs
Streets & Roads
Earthwork, Waterways
Unclassified
Latin America
Public Buildings
Commercial Buildings
Industrial Buildings

Stages Reported

PROPOSED: (except Streets & Roads):

BIDS ASKED (new announcements only. For full calendar, see also preceding issues of ENR):

LOW BIDDERS: On jobs below $500,000 value all low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

Note: To comply with censorship requirements, addresses on some reports are being generalized. Data which would reveal the purpose of the improvements and the size are withheld. The name of contractor and general area are reported.

WATER SUPPLY

PROPOSED WORK

†Del., New Castle—Federal Works Agency, 606 State Planters Bldg., Richmond, Va., WW sys. addn. $33,330 allot.

†Ind., Newport—Bd. P. Wks., WW sys., deep well, pump equip., pump house, watermains, $80,000. **FWA.** Thos. Hardman, 211 S. Center St., Terre Haute, consult. engr.

†Ind., Odon—Town, exten. WW, mains pump house, equip. $50,000. **FWA.** Henry Steeg & Associates, 129 E. Market St. Bldg., Indianapolis, consult. engrs. CD 4/29—ENR 5/7.

†Ia., Ottumwa—3 mi. addnl. water lines. $158,500. **FWA.** CD 10/6—ENR 10/8.

Me., Bath—Water Dpt., imprv. water sys. $80,000. Fay, Spofford & Thorndike, 11 Beacon St., Boston, Mass., engrs.

Mass., Peabody—Water Dpt., c.l. watermains Rockdale Park Sect. $15,000.

N. Y., Seneca Falls—Bd. Water Comrs., Village Hall, rejected bids Sept. 14, WW intake crib in Cayuga Lake, intake pipe, etc. Buck, Seifert & Jost, 112 E. 19 St., New York, engrs. CD 9/2—ENR 9/10.

Tex., San Antonio—Fresh Water Supply Dist. 2, c/o Woodlawn Hills, providing and installing fresh water supply sys. Over $15,000.

†Va., Blackstone—Federal Works Agency, 606 State Planters Bank Bldg., Richmond, installing 4,950 ft. 6 in. watermains, booster station. $24,048.

†Va., Cape Charles—Federal Works Agency, 606 State Planters Bldg., Richmond, 12 in. well, with pump, installing 3,600 ft. 6 in. watermain, appurtenances, etc. $30,300 allot.

†Pacific Northwest—U. S. Eng., 800 3 Ave., Seattle, Wash., water supply sys., Inv. 200.

†Pacific Northwest—U. S. Eng., 800 3 Ave., Seattle, Wash., well, Inv. 204.

LOW BIDDERS

†South Carolina—U. S. Eng., Congaree, Oct. 16, WW sys., Richland Co., from Reed & Abee, Inc., Asheville, N. C.

†Texas—U. S. Eng., 231 W. Main St., Denison, water lines, sanitary sewer lines, gas lines, Solic. 257-43-77, Collin Co., from Parrott-Oldt Co., 403 S. Haskell St., Dallas, **$100,000-$500,000.** CD 10/2.

†Texas—U. S. Eng., Fort Sam Houston, Oct. 12, pumphouse, electric-driven, deep-well turbine pump, standby-gasoline engine, etc., Spec. 42-370, Bexar Co., from San Antonio Machine & Supply Co., 325 N. Center St., San Antonio, under **$50,000.** CD 10/8.

CONTRACTS AWARDED

†Alabama—U. S. Eng., 494 Spring St. N.W., Atlanta, Ga., general contract, 20 in. watermain exten., Etowah Co., to D. M. Ferris Contg. Co., Nashville, Tenn., **$100,000-$500,000.** CD 9/9—ENR 9/17, under CA.

†Florida—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, water distr. sys., Inv. Neg-Jax-43-309, Sarasota Co., to C. T. Dawkins, 2424 Chicago Ave., Tampa, under **$50,000.**

†Florida—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, water and sewerage sys., Inv. Neg-Jax-43-303 Polk Co., to Boyd & Goforth, Inc., 1226 W. Forsythe St., Jacksonville, under **$50,000.**

†Florida—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, water and sewerage sys., Inv. Neg-Jax- 43-266, Duval Co., to Paul Smith Const. Co., 320 N. Rome Ave., Tampa, under **$150,000.** Awarded 9/25.

†Florida—U. S. Eng., Court House, Jacksonville, water and sewerage sys., Hillsborough Co., to Langston Constr. Co., Orlando, less than **$50,000.** Awarded 10/20.

†Fla., Panama City—City, water treatment plant, to J. A. Jones Constr. Co., 209 W. 4 St., Charlotte, N. C., **$128,392;** drilling wells, furnishing pumps, appurtenances, to Layne-Central Co., 1993 Chelsea Ave., Memphis, Tenn., **$27,000. FWA.** CD 8/31—ENR 9/3.

†Me., Portland—City, Water Dist., F. J. Reny, genl. mgr., Casco St., watermains, Contr. 3, reinforce mains, to Spearin, Preston & Burrows, Inc., 50 Church St., New York, N. Y., **$25,000. FWA.**

†Maryland—U. S. Eng., Standard Oil Bldg., Baltimore, 2 pump houses for water supply, Harford Co., to J. H. Lawrence Co., 2600 Huntingdon Ave., Baltimore.

★**†Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, underground primary service connection to pump house, Macomb Co., to Modern Electric Constr. Co., Mt. Clemens, under **$1,000,000.**

Pa., Wilkes-Barre—Scranton-Spring Brook Water Service Co., 30 N. Franklin St., repairing, imprv. dam, to William B. Huxter Bldg. Corp., Dover Hills, Dover, N. J. **$85,000.** Bids 9/29. CD 9/16—ENR 9/24.

†South Carolina—U. S. Eng., Post Office Bldg., Savannah, Ga., Items 2 and 3, water and sewerage work, Aiken Co., to Nichols Contg. Co., 1190 Caroline St. N.E., Atlanta, Ga. Bids 10/10 or 10/15. CD 10/6—ENR 10/8.

★**†R. I., Newport**—Federal Works Agency, 2 Lafayette St., New York, N. Y., earth dam and appurtenances to raise water level Nonquit Pond as part water sys. expansion, to Gilbane Building Co., Inc., P. O. Box 480, approx. **$528,900** fixed-fee basis. CD 9/30—ENR 10/8.

†Texas—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, water distr. sys., equip., sanitary sewers, sewer lift station, for housing Tex. 41-131, to J. G. Holland, 2739 Centenary St., Houston, **$100,000-$500,000.** CD 8/5—ENR 8/13, under Public Bldgs.

†Texas—U. S. Eng., Fort Sam Houston, water, sanitary sewers, gas lines, etc., Spec. 42-510, Brown Co., to L. Fikes, Gulf States Bldg., Dallas, **$50,000-$100,000.**

†Texas—U. S. Eng., Fort Sam Houston, overhead steel water tank, 75 ft. tower, surface concrete water tank, water supply lines, pump house, Spec. 42-472, Val Verde Co., to Williams & Whittle and Williams & Broughton, 5422 Mockingbird Lane, Dallas, **$50,000-$100,000.** Bids 10/5. CD 9/29.

†Washington—U. S. Eng., 800 3 Ave., Seattle, Wash., drilling well, Snohomish Co., to J. J. Bell & Son, 6116 4 Ave. S., Seattle, under **$50,000.** CD 10/12—ENR 10/15, under Pacific Northwest.

SEWERS WASTE DISPOSAL

PROPOSED WORK

†Conn., New Britain—City, Dpt. P. Wks., storm sewers at housing projects. $101,202. **FWA.** G. Molleur, city engr.

†Idaho, Alameda—City, completing sewage plant, constructing enclosure around Imhoff tank, completing 3 bays filter field. $15,700. **FWA.**

†Ind., Newport—Bd. P. Wks., sewage treatment plant, sewerage sys. $100,000. **FWA.** Thos. Hardman, 211 S. Center St., Terre Haute, consult. engr.

†S. C., Charleston—North Charleston Pub. Serv. Dist., sewage facilities, Docket SC-38-206. $51,300. **FWA.**

Tex., Bowie — Imprv. municipal sewerage sys. recently purchased from private owners. Over $25,000.

Wis., Wauwatosa—J. H. Fowles, secy. Sewer comn., storm sewer from N. 69 St. and W. North Ave. to Washington Dr. $80,000-$100,000. J. L. Ferebee, c/o Jones Island, Milwaukee, engr.

BIDS ASKED

Bids Asked November 2

N. J., Bloomfield—Mayor and Town Council, Municipal Bldg., depression Supplementary Union Outlet Sewer beneath Second River near Mill St., Belleville, and Walnut St., Bloomfield. J. W. Obreiter, town engr.

Bids Asked November 6

Calif., San Pablo—San Pablo Sanitary Dist., F. Carfield, secy., Fire House, sewers in Assessment Dist. 15, $27,000; sewer in Assessment Dist 17, $51,000. No bids received Oct. 16 on latter project. P. Jones, Box 1299, Vallejo, engr. CD 9/8 and 10/8—ENR 9/10 and 9/24.

LOW BIDDERS

†South Carolina—U. S. Eng., Florence, Oct. 15, sewerage and water sys., Florence Co., from Boyd & Goforth, Inc., 617 N. Smith St., Charlotte, N. C.

Tex., Houston—C. A. Pickett, mayor, Oct. 24, sanitary sewer lines, Bremond, Napoleon, Rosalie and Scott Sts., from Tellepsen Constr. Co., 3900 Clay Ave., **$92,904.** Est. $80,000. CD 10/5—ENR 10/11.

†Tex., Wichita Falls—City, J. Bryan Miller, mgr., Oct. 15, sewer imprvs., Tex. 41-167, from P. C. Sorenson & Co., Industrial Blvd., Dallas, **$159,704. FWA.** CD 6/25—ENR 7/2.

CONTRACTS AWARDED

†Ala., Phenix City—City, E. E. Reece, mayor, general contract trunk line sewer, exten. sanitary sewerage sys., Ala. 1-190, to Schley Gordy Constr. Co., Hill Bldg., Columbus, Ga. Est. **$69,000. FWA.** Bids 10/13. CD 10/9.

†Illinois—U. S. Eng., 520 Merchandise Mart, Chicago, addn. sewage tr. plant, Lake Co., to James S. Adams Co., 217 N. Mozart St., Chicago; electrical work to Glenview Electric Shop, Glenview. CD 9/9—ENR 9/17.

†Louisiana—U. S. Eng., foot of Prytania St., New Orleans, sewage treatment plant, Inv. 43-134, to T. Miller & Sons, Lake Charles, Awarded 10/21.

Mass., Worcester—City, Sewer Dpt., 20 E. Worcester St., sanitary sewers Longworth Rd., Button St., etc., own forces. **$25,000.**

†Mississippi—U. S. Eng., Post Office Vicksburg, outfall sewer, Hinds Co., to Smith & Pew Constr. Co., 211 Piedmont Rd. NE., Atlanta, Ga. **$50,000-$100,000.**

★**†Miss., Biloxi**—City, Divs. A and C, sewerage sys., 12 mi. main sanitary, 27 mi. 12 and 10 in. lateral, and 12 mi. house connecting sewers, etc., also sewage treatment plant, to Joseph J. Duffy Co., 176 W. Adams St., Chicago, Ill., **$598,734** and **$270,921** respectively. **FWA.**

★**†Ohio** — U. S. Eng., 700 Union Guardian Bldg., Detroit, Mich., remodeling, expanding sewage disposal plant, No. N-176, Ottawa Co., to Steinle-Wolfe Inc., Fremont. Est. less than **$1,000,000.**

†Texas—U. S. Eng., Fort Sam Houston, outfall storm sewer, Spec. 42-369, Bexar Co., to J. D. Scarbrough, St. Anthony Hotel, San Antonio, **$50,000-$100,000.** Bids about 10/12. CD 10/7.

SEWERS, etc. (Contracts Awarded, Cont'd.)

†Tex., Fort Worth—Tarrant Co. Water Control & Imprvt. Dist. 3, J. H. Meeker, pres., sewer imprvs. Tex. 41-499, to Williams & Whittle, 5422 Mockingbird Lane, Dallas, **$145,-336. FWA.** CD 5/14—ENR 5/21.

†Washington—U. S. Eng., 800 3 Ave., Seattle, sewage treatment plant, Spokane Co., to Anderson Building Co., E. 4409 Sprague Ave., Spokane, **$100,000-$500,000.**

BRIDGES GRADE CROSSINGS

PROPOSED WORK

†Arkansas—U. S. Eng., U. S. Post Office & Courthouse, Vicksburg, Miss., overpass over Reserve Ave. and remodeling hotel, etc.

Calif., Long Beach—City Harbor Dpt., 1333 El Embarcadero, and Los Angeles Co., (Los Angeles) bids soon treated timber bridge over Flood Control Channel. $85,000. R. R. Shoemaker, 1333 El Embarcadero, engr.

Kansas—State Hy. Dpt., Olathe, rejected bids Oct. 9, underpass and widening bridge, Johnson Co. CD 9/29—ENR 10/1.

Missouri—State Hy. Comn., Jefferson City rejected bids Sept. 19, bridge Jackson Co. CD 9/15.

N. C., Elizabeth City—J. Flora, mayor, timber bridge, approaches over Charles Creek, White and Jones Sts. Over $25,000.

†Texas—U. S. Eng., Fort Sam Houston, rein.-con., heavy timber water crossings. $100,000 authorized.

BIDS ASKED

Bids Asked November 4

Iowa—State Hy. Comn., Ames, 14 concrete box culvert extens., on Iowa 141, P 516, Monona Co., over $25,000; 6 in. tile drain, Iowa 14, FN-85, Butler Co.

Bids Asked November 10

Georgia—State Hy. Dpt., W. E. Wilburn, chn., Atlanta, substructure for bridge over Darien River, incl. 0.258 mi. grading, approach fills Brunswick-Darien Rd., McIntosh Co.

Washington—B. Banz, dir., State Hy. Dpt., Olympia, steel girder bridge, Secondary State Hy. 9-A, Twin to Clallam Bay Jct., Clallam Co. Plans deposit $10.

LOW BIDDERS

Georgia—State Hy. Dpt., Atlanta, Oct. 23, bridge, Cobb Co., from G. L. Strickler, Austell, **$61,261,** est. $50,000; bridge Gilmer Co., from C. L. Rhodes, Decatur, **$24,790,** est. $20,000. CD 10/20.

CONTRACTS AWARDED

†California—U. S. Eng., 74 Montgomery St., San Francisco, bridge repairs and concrete ford, Monterey Co., to Howson Bros., Gilroy. Awarded 10/22.

Kan., Winfield—Cowley Co., reconstructing Gueda Bridge, day labor. **$25,000.**

Washington—State Hy Dpt., Olympia, redecking, painting Cowlitz River and Pioneer Bridges, near Longview, Cowlitz Co., to Hart Constr. Co., E 11 and Hylebos Way, Tacoma, **$73,341.** Bids 10/20. CD 10/7.

STREETS AND ROADS

BIDS ASKED

Bids Asked November 4

Connecticut—State, Dpt. P. Wks., Hartford, roads, Paugnut State Forest.

Md., Baltimore—City, Bd. Awards, concrete paving Danville Ave. from Pumphrey to Elrine Sts. Bureau Hys., Municipal Bldg., engrs.

N. Y., New York — President Manhattan Boro, Municipal Bldg., cutting, recutting, dressing, redressing, jointing and rejointing stone curb stored at Morton, W. 134 and W. 158 Sts.

Bids Asked November 5

N. J., Coltsneck—Atlantic Twp., Town Hall, Coltsneck, gravel calcium chloride and lignin treated surfacing 16,390 sq. yd. Hominy Hill Rd. F. E. Mitchell, 60 Broad St., Red Bank, engr.

North Carolina—State Hy. & Pub. Wks. Comn., Raleigh, grading, soil type base 2.69 mi. Project 2893, Wayne Co. $25,000-$50,000. W. V. Baise, Raleigh, engr.

Bids Asked about November 6

†New Mexico — U. S. Eng., Albuquerque, construction and hard paving roads, Otero Co. $140,000. Plans deposit $50.

Bids Asked November 6

Arizona—State Hy. Comn., Phoenix, grading, draining, bituminous surface treating 3¾ mi. Prescott-Ashfork Hy., SN-FA 62-A (3). W. R. Hutchins, hy. engr.

Pennsylvania—At office I. L. Hughes, secy. Dpt. Hys., Harrisburg, concrete paving 3,076 ft. Legislative Route R-129, Sect. 4, Traffic R-230, Lower Swatara Twp., Dauphin Co.; bituminous surfacing 1,684 ft. Legislative Routes 30050 and 30051, Jefferson Twp., Clarksville Borough, Greene Co.

Bids Asked November 10

Washington—B. Bantz, dir. State Hy. Dpt., Olympia, clearing, grading, surfacing, stockpiling aggregates 1.045 mi. road Pacific Co.; placing selected borrow 2.596 mi. Primary State Hy. 1, Salmon Creek to Kozy Kamp, Clark Co.

Bids Asked November 12

California—State Div. Hys., Sacramento, grading, road mix surfacing 3.4 mi. between 1.2 mi. north of 5th Standard Parallel and Stratford, Kings Co.; grading, bituminous surface treating 16.1 mi. between Antelope School and Route 58, Kern and Los Angeles Counties. C. H. Purcell, Sacramento, state hy. engr.

Bids Asked November 13

Kentucky—Dpt. Hys., Frankfort, grading, draining, low type surfacing 0.228 mi. approaches to Aberdeen State Ferry at Green River, Morgantown-Hartford Rd., SP 16-36, Butler Co.

Bids Asked

D. C., Wash. — District Comrs., District Bldg., rejected bids Sept. 10, 23,000 sq. yd. concrete alleys. CD 9/15—ENR 9/17 under LB.

Utah—State Roads Comn., Salt Lake City, received no bids Oct. 16, gravel surfacing 5.36 mi. Iron Co. J. S. Evans, ch. engr. CD 10/13.

LOW BIDDERS

★**†California**—State Div. Hys., Sacramento, Oct. 21, imprv. 13 mi. Santa Barbara Co., and 1.1 mi. Solano Co., from Frederickson & Watson Constr. Co., 873 81 Ave., Oakland, and Frederickson Bros., 1259 65 St., Emeryville, **$699,045** and **$52,918** respectively; 1.3 mi. San Francisco Co., from C. L. Harney, 443 Call Bldg., San Francisco, **$283,853.** CD 10/2—ENR 10/8.

Connecticut—State, W. J. Cox, comr., Hartford, Oct. 19, 4585 ft. Canton, from Charter Oak Constr. Co., Inc., 525 Main St., Hartford, **$32,060***imprvs. Enfield, also 13,000 ft. Somers, from F. Romeo, 164 E. Main St., Rockville, **$26,633** and **$25,484** respectively***8,732 ft. Ledyard, from Thos. De Lucca, Lebannon, **$31,644***10,702 ft. Madison, from D. Arrigoni, 605 Main St., Middletown **$31,997***9,977 ft. Thompson, from F. J. Shields, Inc., 91 Central St., Southbridge, Mass., **$30,248.** Received no bids imprs. Ellington. CD 1012.

Georgia—State Rd. Comn., Atlanta, Oct. 23, imprv. 5.891 mi. and 2.367 mi. Houston Co., from Henry Newton & Co. Decatur, **$165,973** est. $126,000***4.931 mi. Telfair Co., to Pittman Constr. Co., 537 Plaster Rd., Atlanta, **$141,640,** est $128,000***1.758 mi. Cobb Co., from E. A. Hudson's Sons, Bolton, **$125,878,** est. $96,000. CD 10/20.

Idaho—Dpt. P. Wks., Bureau Hys., Boise, roadbed, draining, crushed gravel surfacing 2,764 mi. Jefferson Co., from Nick Burggraf, Inc., Idaho Falls, **$52,713;** 2.393 mi. Lincoln Co., from Hoops Constr. Co., Twin Falls, **$75,348.** Bids 10/12 and 10/16.

Ill., Edwardsville—City, Oct. 16, 20,821 sq. yd. bituminous concrete paving Sect. 8-CS, from Bituminous Fuel & Oil Co., 320 N. 4 St. Louis St., East St. Louis, **$35,800.** CD 10/13.

Ill., Oak Park—City, Oct. 19, removing, replacing 20,012 lin. ft. curb, 12,621 lin. ft. curb and gutter, 19,700 sq. ft. sidewalks, etc., from Albin Carlson Co., 5942 W. Chicago Ave., Chicago, **$62,321.** CD 10/13.

Kentucky—Dpt. Hys., Frankfort, Oct. 23, imprv. 1.281 mi. McCracken Co., from Ruby Lumber Co., Madisonville, **$60,363.** CD 10/13—ENR 10/15.

Md., Baltimore—City, Bd. Awards, City Hall, Oct. 21, imprv. streets, C.C.-774, from Arundel Constr. Co., 910 Trinity St., **$33,842.** CD 10/19.

★**Michigan**—State Hy. Dpt., Lansing, Oct. 15, grading, draining, concrete paving 2.602 mi. DA-WI-81-7C-7 on Ypsilanti South Belt from M#17 west, Washtenaw Co., from Bridgeport Core Sand Co., 125 Davenport St., Saginaw, **$557,579***2.463 mi. DA-WI-81-7C-8 on Ypsilanti South Belt from U.S. 23 east, Washtenaw Co., from Lewis & Frisinger Co. and E. B. Schwaderer, 214 E. Madison St., Ann Arbor, **$468,755***3.876 mi. SN-F-46-6C-6; SN-F-46-6C-7, SN-F-46-7C-3, SN-F46-13C-16, SN-F-46-13 C-17, U.S. 223, Adrian southeast and northwest, Lenawee Co., from Lewis & Frisinger, 214 E. Madison St., Ann Arbor, **$274,110.**

†New Jersey—S. Miller, Jr., comr. State Hy. Dpt., Trenton, Oct. 19, imprv. 0.572 mi. Fed. DA-N.R.-5, Hudson Co., from New Jersey Asphalt & Paving Co., foot of Howell St., Jersey City, **$73,714.** CD 10/15.

N. Y., Brooklyn—Dpt. P. Wks., Municipal Bldg., New York, Oct. 2, street paving work for Brooklyn Terminal Market, from E. W. Foley, Inc., 16 Court St., **$136,400.** CD 10/15.

N. Y., New York—President Bronx Boro, Bronx County Bldg., 851 Grand Concourse, Oct. 23, repaving roadway, Jerome Ave., from Charles D. Beckwith, Inc.; Seneca Ave. and Edgewater Rd., **$152,660;** Morris Ave., from F.P.S. Contr. Co., 2861 Coddington Ave., **$51,-307.** CD 10/15.

★**North Carolina**—State Comn., Raleigh, Oct. [illegible] Camden Co., from Ark[illegible] Great Bridge, Va., **$57[illegible]** $400,000. CD 10/13—ENR

†South Carolina—U. S. [illegible] Oct. 16, grading, paving [illegible] Hubbard Constr. Co., [illegible] Moragne Constr. Co., 30[illegible] bia.

†Texas—U. S. Eng., Fort [illegible] 17, streets, parking [illegible] Spec. 42,518, Bexar Co., fr[illegible] St. Anthony Hotel, San An[illegible] CD 10/8.

†Texas—U. S. Eng., Fort [illegible] 16, roads, Spec. 42-496 (T[illegible] H. B. Zachry Co., Harding [illegible] CD 10/13, under Public B[illegible]

Tex., Houston—C. A. P[illegible] ing, removal 42 mi. street [illegible] Constr. Co., 803 Byrne St.

CONTRACTS AWARDED

★**†Florida**—U. S. Eng., U[illegible] Post Office, Jacksonville [illegible] Co., Inv.-Neg-Jax-43-207, to [illegible] 3905 N.W. 27 Ave., Miami [illegible] Awarded 10/16.

†Florida—U. S. Eng., Court[illegible] ville, clearing, grubbing, [illegible] roads, Sarasota Co., to Cone [illegible] Ave. and Cumberland Rd. [illegible] $50,000. Awarded 10/21.

Georgia—State Hy. Dpt., [illegible] chn., Atlanta, imprv. 3.826 [illegible] Cornell-Young Co., Macon, $369,683. [illegible] 10/16. CD 10/13.

★**Illinois**—State Dpt. P. Wks. & Bldgs. Div. Hys., Springfield, imprv. 10.14 mi. Sangamon and Logan Counties, to [illegible] D. Lain, 410 S. 5 St., Springfield, $899,915. Bids [illegible] awarded 10/9. CD 9/29—ENR 10/1 under LB.

†Maryland—U. S. Eng., Standard Oil Bldg., Baltimore, road imprvs., Harford Co., to H. R. Miller Co., Lancaster, Pa.

Mass., Fall River—Dpt. P. Wks., bituminous concrete repairing, patching streets, to Sherry Corp., 823 Davol St. Est. over $25,000.

Mississippi—State Hy. Comn., Jackson, Imprv. 2.954 mi. Wilkinson and Amite Counties, to Shruptrine Contg. Co., Centerville, est. **$100,000;** 2.226 mi. Jackson Co., to Cobb Constr. Co., Meridian, **$148,066,** est. $100,000. Bids 10/13, awarded 10/14. CD 10/9.

†Mississippi—U. S. Eng., foot of Prytania St., New Orleans, La., roads, Inv. 43-137, to Shuptrine Constr. Co., Centerville. Bids [illegible] awarded 10/19. CD 10/8.

Montana—State Hy. Comn., Helena, imprvs., to Barnard Curtiss Co., 808 Phoenix Bldg., Minneapolis, Minn., **$155,057;** grading, surfacing 2.7 mi. road to Kirkpatrick Bros., Kalispell, **$32,554.** Bids 10/19. CD 10/12.

†North Carolina—U. S. Eng., Charlotte, roads, drainage, Union Co., to Kiker & Young, Reidsville. Bids 10/14.

North Dakota—J. S. Lamb, comr., State Hy. Dpt., Bismarck, replenishment gravel 9.954 mi. and 18.108 mi. Pembina Co., to Butler Constr. Co., 911 N. 6 St., Grand Forks, $35,565. Bids 10/3. CD 9/29.

Ohio — State Hy. Dpt., Columbus, imprv. 1.217 mi. Allen Co., to Churchill Bros. Co., 1126 State St., Lima, **$35,518,** est. $35,520*** 1.65 mi. Cuyahoga Co., to Wm. L. Schloss Bway. and McCracken Rd., Cleveland, $38,740, est. $38,800***3.666 mi. Greene Co., to L. P. Cavett Co., 511 Shepherd Ave., Lockland, **$73,739,** est. $73,900. Grand total $147,999. Received no bids Oct. 13, imprv. roads, Summit and Trumbull Counties. CD 10/2—ENR 10/8.

†Texas—U. S. Eng., Albuquerque, N. M., surfacing roads El Paso Co., to H. McMillan, Smelter St., El Paso, under **$50,000.** CD 10/[illegible] —ENR 10/8.

†Texas—U. S. Eng., Albuquerque, N. M., asphalt and concrete paving, Reeves Co., to H. Horne, Alamogordo, N. M., **$100,000-$500,000.** Bids 10/1. CD 9/25.

†Texas—U. S. Eng., 231 W. Main St., Denison, area grading, drainage streets and roads, 257-32-77, Collin Co. to O'Neal Constr. Co., 901 S. Austin St., Dallas, **$100,000-$500,000.** CD 10/2—ENR 9/17.

†Texas—U. S. Eng., Fort Sam Houston, road, Q-R, Spec. 42-245, Bell Co., to M. E. Ruby, Wallace & Bowden, 2101 Enfield Rd., Austin, over **$50,000.** CD 8/20—ENR 8/27 under LB.

†Texas—U. S. Eng., 25 St. and Avenue P, Galveston, addn. paving, drainage work, walls for storage tanks, Harris Co. to Brown & Root, 4300 Calhoun Rd., Houston, **$50,000-$100,000.**

†Texas—U. S. Eng., Fort Sam Houston, asphalt surfacing, Spec. 42-428, Bexar Co., to Colglazier & Hoff, 326 Seguin Rd., San Antonio, under **$50,000.** Bids 10/20. CD 10/16.

†Texas—U. S. Eng., Fort Sam Houston, streets and parking areas, asphalt paving, Spec. 42-518, Bexar Co., to J. D. Scarbrough, St. Anthony Hotel, San Antonio, under **$50,000.**

Washington — State Hy. Dpt., Olympia, imprv. 6.398 mi. Spokane Co., to C. A. Power,

STREETS, etc. (Contracts Awarded, Cont'd.)
E. 27 Eighth St., Spokane, **$113,378.** Bids 10/20. CD 10/7.

†Washington—U. S. Eng., 800 3 Ave., Seattle, surfacing, Snohomish Co., to E. J. Templeton, Everett, **$50,000-$100,000.**

†Washington—U. S. Eng., 800 3 Ave., Seattle, surfacing, Mason Co., to Washington Asphalt Co., 309 W. 39 St., Seattle, **$100,000-$500,000.**

EARTHWORK WATERWAYS

PROPOSED WORK

Ia., Council Bluffs—Pottawattamie Co. (Council Bluffs) C. A. Bowers, aud., and Harrison Co. (Logan), ditches and second settling basin for Allen Creek D.D., near here. $15,000.

La., Morgan City—Humble Oil & Refining Co., Humble Bldg., Houston, Tex., dredging canal from 15 mi. southerly from Morgan City, Terrebonne Parish.

†Missouri—U. S. Eng., 10 E. 17 St., Kansas City, Mo., revetment in or adjacent to Missouri River.

S. D., Belle Fourche—States of South Dakota, Pierre, and Wyoming, Cheyenne, dam to supply Ortman Dam irrigation sys.

†Texas—U. S. Eng., U. S. Post Office & Courthouse, Vicksburg, Miss., surveys soon, developing water transportation, Jefferson Co.

LOW BIDDERS

Tex., Robstown—Nueces Co. D. D. 2, A. M. Stone, chn., Robstown, Oct. 19, drainage, improvs., culverts, drains, from McGinnes Bros., 5619 Griggs Rd., Houston, **$485,374.** CD 9/21—ENR 9/24.

CONTRACTS AWARDED

†Illinois—U. S. Eng., 520 Merchandise Mart, Chicago, excavating and clearing, Fulton Co. to Phillippi & McLean, 519 Bemidji Ave., Bemidji, Minn.

†Mississippi—U. S. Eng., Post Office, Vicksburg, 1,042,000 cu. yd. levee, Mississippi River, Bolivar Co., to Forcum-James Co., Dyersburg, Tenn., **$100,000-$500,000.** Bids 10/14. CD 10/9.

†New Mexico—U. S. Eng., Albuquerque, grading, drainage, embankment, surfacing, Bernalillo Co. to Skousen Bros., Albuquerque, **$50,000-$100,000.** CD 9/10—ENR 9/17.

†Texas—U. S. Eng., 25 St. and Avenue F, Galveston, dredging 200,000 cu. yd. from Anahuac Channel, to Gulf Coast Dredging Co., Texas City, under **$50,000.** Bids 10/5. CD 9/28.

†Texas—Upper West Fork Soil Conservation Dist., c/o A. C. Bennett, chn. Bd., Decatur, control soil and water resources, and reduce soil erosion in Young and Wise Counties and part of Jack Co., **WPA. $93,000.** J. H. Taylor, Decatur, engr.

Wash., Tacoma—City, clearing, grading, grubbing, bridges, relocation 6.5 mi. Tacoma-Eastern R.R. at La Grande, part of second Nisqually power development, force account. Former bid rejected. CD 9 4—ENR 9/10, under LB.

UNCLASSIFIED

PROPOSED WORK

★**†Delaware**—IMPROVEMENTS—U. S. Eng., 6 and Walnut Sts., Phila., Pa., imprvs. $500,000. **CAA.**

★**†Fla., Perry** — IMPROVEMENTS — City, imprvs. $800,000. CAA.

★**Ia., Burlington**—IMPROVEMENTS—City, imprvs. $650,000 CAA. CD 10/2—ENR 10/22.

Ia., Fort Dodge—IMPROVEMENTS—$100,000 bond election Nov. 3, enlarging imprvs. $150,000.

★**Ia., Mason City**—IMPROVEMENTS—City, H. T. Barclay, mgr., $50,000 bond election Nov. 3, imprvs. $650,000. CAA.

★**†Kansas**—IMPROVEMENTS—U. S. Eng., 10 E. 17 St., Kansas City, Mo., imprvs. Over $1,000,000. CD 9/17—ENR 9/24 under Public Bldgs.

★**†Minn., Alexandria** — IMPROVEMENTS — H. S. Campbell, city clk., voted $48,000 bonds, purchase land for imprvs. Total est. over $900,000. CAA.

Louisiana—CASINGS—The California Co., Canal Bldg., New Orleans, 3 in. casings (pipes), stakes, detectors, etc., Plaquemines Parish.

Louisiana—CASINGS, etc.—Texas Co., 919 St. Charles St., New Orleans, 3 in. casings (pipes) stakes, detectors, etc., Plaquemines Parish.

Louisiana — IMPROVEMENTS — Industrial Company soon lets contract imprvs. Shourds & Houton, 642 Audubon Bldg., New Orleans, engrs. CD 10/9—ENR 10/15.

Louisiana—OIL PIPELINE—Houston Pipe Line Co., Petroleum Bldg., Houston, Tex., 10 in. oil pipeline under and across Bayou Vermilion, Vermilion and Jefferson Davis Parishes.

Louisiana—OIL PIPELINE—Texas Pipe Line Co., Texas Co. Bldg., Houston, Tex., 10 in. oil pipeline across Black Bayou, Calcasieu Parish.

Louisiana—OIL PIPE LINE—Texas Pipe Line Co., Texas Co. Bldg., Houston, Texas, 10 in. oil pipe line, Calcasieu and Jefferson Davis Parishes.

Louisiana—OIL PIPE LINES—Shell Pipe Line Corp., Snell Bldg., Houston, Tex., 10 in. oil pipe lines, Calcasieu and Jefferson Davis Parishes.

†Louisiana—OIL STORAGE SYSTEM—U. S. Eng., foot of Prytania St., New Orleans, will not receive bids Oct. 20, a.c. lubricating oil storage sys., Inv. 43-142. CD 10/15.

Louisiana—PLATFORM—Texas Co., 919 St. Charles St., New Orleans, 10x16 ft. timber platform, timber pile fdn., Iberia Parish.

Louisiana—RAMP—Roland Machine & Mfg. Co., Inc., 1000 Tchoupt St., New Orleans, 160 ft. timber ramp, 12 ft. wide, pile fdn., in Mississippi River, Orleans Parish.

Louisiana—WHARF—Cities Service Oil Co., 70 Pine St., New York, N. Y., 234x7 ft. timber wharf, Sulphur Parish.

Louisiana—WHARVES—Cities Service Oil Co., 70 Pine St., New York, N. Y., 2 timber wharves, approaches, piling, near Vincents Landing, in Calcasieu River and Pass Ship Channel, Calcasieu Parish.

†Missouri—IMPROVEMENTS—U. S. Eng., 10 E. 17 St., Kansas City, Mo., imprvs., Buchanan Co. Under $100,000.

Neb., Gering — IMPROVEMENTS — A. L. Smith, city clk., imprvs. Over $50,000. Filed application for $40,000 federal funds.

★**†Neb., Omaha** — IMPROVEMENTS — City, M. J. Dineen, clk., 2nd Imprvs. $1,000,000. CAA.

N. H., Concord—IMPROVEMENTS—State Airport Comn., Concord, imprvts. Over $25,000. Foster & Bamford, Inc., 18 N. Main St., engrs.

New Mexico—OIL WELL—South Basin Oil Co., Hobbs, bids soon, drilling, casing developing 6,000 ft. oil well, De Baca Co. $75,000.

†N. D. Grand Forks — IMPROVEMENTS — City, T. H. Thoreson, mayor, imprvs., grading, drainage, $25,000. CAA.

†Ore., St. Helens—IMPROVEMENTS—Civil Aeronautics Admin., Boeing Field, Seattle, Wash., bids soon, imprvs. $230,000. CAA.

★**†South Carolina**—IMPROVEMENTS—U. S. Eng., 33 Customhouse, Charleston, imprvs., Florence Co. over $1,000,000.

†Texas — IMPROVEMENTS — U. S. Eng., Albuquerque, N. M., imprvs., addnl. bldg. and utilities, Ward Co.. $80,000.

Texas—IMPROVEMENTS—Texas Shipbuilding Co., c/o E. C. Barkley, 2nd Natl. Bank Bldg., 802 Main St., Houston, imprvs.

†Texas—STORAGE SYSTEM—U. S. Eng., 25 St. and Avenue F, Galveston, will not receive bids storage sys., facilities, McLennan Co. CD 10/13—ENR 10/15.

†Texas—UTILITIES—U. S. Eng., 25 St. and Avenue F, Galveston, underground utilities, facilities, bldgs., Cameron Co. $90,000.

Tex., Bainville (near Beeville)—OIL WELL—Stanolind Oil Co., Beeville and Gulf Bldg., Houston, drilling, developing 10,000 ft. oil well, 6 mi. northwest of Burnell, near here. $75,000.

Tex., Gonzales—OIL or GAS WELL—Continental Oil & Gas Co., Union Natl. Bldg., Houston, bids soon drilling casing, developing deep oil or gas well on No. 2, Gatlin, near here. $70,000.

Tex., Houston — IMPROVEMENTS — City, imprvs. $100,000.

Tex., Karnes City—OIL WELL—American Oil & Development Co., Karnes City, drilling, developing deep test oil well, Burnell Field, near here. $60,000.

Tex., Kingsville—OIL WELLS—Humble Oil & Refining Co., Humble Bldg., Houston, drilling, completely developing 7 deep oil wells, above area, in Kleberg, Jackson and Jim Hogg Counties, $300,000.

Tex., Pecos—OIL WELL—Anderson-Prichard Oil Co., Pecos, drilling, casing, developing 6,500 ft. wildcat oil well, site-C SW SW 24140-T and STL, near here. $80,000.

Tex., Realitos—OIL WELL—M. L. Massingill, Realitos, drilling, casing, developing deep oil well, Duval Co. $60,000.

Tex., Robstown—OIL WELL—R. H. Hawn, Robstown, drilling, developing 6,000 ft. wildcat test oil well, near here. $60,000.

★**†Tex., Tyler** — IMPROVEMENTS — City, imprvs. $522,000 CAA allotment.

†Wash., Chehalis—IMPROVEMENTS—Civil Aeronautics Admin., Boeing Field, Seattle, imprvs. $307,700.

★**†Wash., Seattle**—DAM—City, County-City Bldg., new bids soon, increasing height of Ross Dam. $10,000,000. Additional funds allotted by **FWA.** E. R. Hoffman, City Light supt. CD 9/15—ENR 9/17.

Wis., Wausau — IMPROVEMENTS — J. L. Brown, city clk., imprvts. A. Baker, city engr. CD 9/15—ENR 9/17.

†Pacific Northwest — COAL CONVEYOR EQUIPMENT—U. S. Eng., 800 3 Ave., Seattle, Wash., installing coal conveyor equip.

†Pacific Northwest—ELECTRICAL DISTRIBUTION SYSTEMS—U. S. Eng., 800 3 Ave., Seattle, Wash., electrical distr. sys. Invs. 195 and 192.

★**Ont., Atitokan** and **Port Arthur**—SPUR etc.—Secretary Dpt. Munitions & Supply, Ottawa, bids soon 6 mi. spur from Steep Rock property to railway, also ore dock at Port Arthur. $2,000,000-$2,500,000.

BIDS ASKED

Bids Asked After October 26

†Tex., Laredo—RADIO FACILITY—Civil Aeronautics Admin., office Regional Manager, P. O. Box 1689, Fort Worth. Bid 443-1437, radio facility, incl. five 133 ft. steel towers, etc.

Bids Asked November 2

†Ia., Ames — IMPROVEMENTS — J. W. Prather, city clk., grading, excav. imprvs. $120,000. CAA. CD 10/27—ENR 10/29.

Bids Asked November 3

†D. C., Wash.—STEAM CONNECTION—Pub. Bldgs. Admin., North Interior Bldg., steam connection to central public library from steam distr. sys. of central heating plant. Extended date.

Bids Asked About November 4

†Texas—GROUNDS DEVELOPMENT—U. S. Eng., Fort Sam Houston, grounds development, etc., Spec. 42-576. $25,000. Plans deposit $25.

Bids Asked November 6

†Arizona—GASOLINE FUELING SYSTEM—U. S. Eng., Albuquerque, N. M., fueling sys., steel tanks for gasoline, pump. unit, concrete pits, lines, etc., Cochise Co. Over $25,000. Plans deposit $50. Extended date. CD 10/12.

Bids Asked November 9

†Texas—FLOODGATES—U. S. Eng., 25 St. and Avenue F, Galveston, floodgates at Colorado River, at intersection Intracoastal Waterway and Colorado River, Matagorda Co. Plans deposit $25.

Bids Asked About November 10

†Kansas—GASOLNE SYSTEM, etc.—U. S. Eng., Albuquerque, N. M., gasoline and fueling sys., Finney Co. $75,000. Plans deposit $50.

†Texas, New Mexico and **Kansas**—FUELING SYSTEMS—U. S. Eng., Albuquerque, N. M., fueling sys., steel tanks, pumping lines, concrete pits, etc. in above states. Over $75,000. Plans deposit $50.

Bids Asked November 13

†N. Y., Oneida—PAINTING—Office of District Engr., Pub. Bldgs. Admin., 1201 Custom House, Boston, Mass., miscellaneous repairs and exterior painting U. S. Post Office.

†N. Y., Walton—PAINTING—Office of District Engr., Pub. Bldgs. Admin., 1201 Custom House, Boston, Mass., exterior and interior painting U. S. Post Office.

†R. I., Providence—PAINTING—Office of District Engr., Pub. Bldgs. Admin., 1201 Custom House, Boston, Mass., exterior painting U. S. Post Office, Court House and Custom House.

Bids Asked November 17

†Tex., McAllen—PAINTING, etc.—Office of District Eng., Pub. Bldgs. Admin., 550 Post Office (new), Dallas, exterior and interior painting and repairs to doors at U. S. Post Office.

Bids Asked November 24

†Va., Covington—PAINTING—U. S. Office of District Engr. Pub. Bldgs. Admin., 3102 City Post Office, Wash., D. C., exterior and interior painting U. S. Post Office.

Bids Asked

†Connecticut—SITE IMPROVEMENT—Pub. Housing Admin., NHA. 24 School St., Boston, Mass., utilities, lawns, grading, at site housing Conn. 6121. Plans deposit $50 first set, $10 each other set. Mylchreest & Reynolds, 238 Palm St., Hartford, and K. Sellers Heine, 101 Mohawk Dr., West Hartford, assoc. archts. P. D. Bemis, 36 Pearl St., Hartford, engr.

†Ia., Ames—IMPROVEMENTS—City, imprvs. grading. $89,000 CAA allot. J. Prather, city clk. CD 5/1—ENR 6/7.

†Kansas — ELECTRICAL DISTRIBUTION SYSTEM, etc.—U. S. Eng., 10 E. 17 St., Kansas City, Mo., electrical distr. sys.; shaping streets and utilities.

†Texas — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 231 W. Main St., Denison, installing outside overhead electrical distr. sys., Gray Co. Over $25,000. Plans deposit $25.

Texas—OIL WELL—Carter Gragg Oil Co., Palestine, drilling, casing, developing deep test Wildcat Oil Well, Wood Co. $75,000.

★**Texas**—PIPELINE CARRIER—Sinclair Refining Co., Gulf Bldg., Houston, 160 mi. 8 in. steel welded joint pipeline carrier between Robstown and Damon Mound, Brazoria Co. $600,000. CD 9/28—ENR 10/1.

UNCLASSIFIED (Bids Asked, Cont'd.)

Bids Asked

Tex., Beeville—OIL WELL—Shell Oil Co., Shell Bldg., Houston, drilling, casing, developing deep oil well, Brushy Creek sector. $60,000.

Tex., Beeville—OIL WELL—Tom Slick, Gulf Bldg., Houston, drilling, casing, completely developing crude oil well, near here. $60,000.

Tex., Karnes City—OIL TEST WELL—American Liberty Oil Co., 1st Natl. Bank Bldg., Dallas, drilling, completely developing deep crude oil test well. $75,000.

Tex., Kings Mill (nr. Pampa)—PIPELINE REMOVAL—Sinclair Refining Co., Fair Bldg., Fort Worth, removing 43 mi. 8 in. steel pipeline from Gray County Dist. and 50 mi. line from Isom Sta. Dist. and all 93 mi. installed between Corpus Christi and Damon Mound. $110,000 or more.

Tex., Rockdale—OIL TEST WELL—G. P. Buescher & P. J. Clarkson, Rockdale, drilling, casing, developing 5,300 ft. deep oil test well, 12 mi. south of here, Milam Co. $60,000.

Tex., Smiley—OIL WELL—Tex Harvey Oil Co., Gonzales, drilling, casing, developing 6,500 ft. deep oil test well, vicinity $75,000.

LOW BIDDERS

†**N. Y., Buffalo**—IMPROVEMENTS—Civil Aeronautics Admin., La Guardia Field, Jackson Heights, Oct. 19, imprvs., grading, paving, from Fago Constr. Co., 745 Colvin Ave., **$62,865.**

†**South Carolina** — FENCING — U. S. Eng., Post Office Bldg., Savannah, Ga., Oct. 17, fencing, Aiken Co., from M. I. Thomason Co., Montgomery, Ala. Est. under **$50,000.**

†**South Carolina**—IMPROVEMENTS — U. S. Eng., Fort Jackson, Oct. 13 and 15, drainage and imprvs., Lexington Co., from Delma Eng. Corp., 1208 Wyatt St., New York, N. Y.

†**South Carolina**—IMPROVEMENTS — U. S. Eng., Congaree, Oct. 21, imprvs., bldgs., Richland Co., from Plowden & Roberts, 1420½ Taylor St., Columbia.

†**South Carolina** — LIGHTING SYSTEM — U. S. Eng., Congaree, Oct. 20, lighting sys., Sumter Co., from Boyle Constr. Co., Sumter.

†**Texas**—ELECTRICAL FACILITIES, etc.—U. S. Eng., Fort Sam Houston, Oct. 12, electrical facilities, fire alarm sys., Spec. 42-473, Val Verde Co., from American District Telegraph Co., 155 6 Ave., New York, N. Y., under **$50,000.** CD 10/7.

†**Texas**—GASOLINE STORAGE, etc.—U. S. Eng., 25 St. and Avenue F, Galveston, a.c. gasoline storage and dispensing sys., Tom Green Co., from Stein & Dawson, P. O. Box 1659, San Antonio, **$50,000-$100,000.**

†**Texas** — IMPROVEMENTS — U. S. Eng., Fort Sam Houston, Oct. 19, imprvs., Spec. 42-489, Bexar Co., from J. D. Scarbrough, St. Anthony Hotel, San Antonio, under **$50,000.** CD 10/8.

†**Texas**—SPRINKLER SYSTEM, etc.—U. S. Eng., Fort Sam Houston, Oct. 19, automatic fire sprinkler sys., electric wiring, etc., Spec. 42-527 and 42-526, Hays Co., from Graham & Collins, 700 Avenue A, San Antonio, under **$50,000.** CD 10/14.

†**Texas** — STORAGE SYSTEM, etc. — U. S. Eng., Fort Sam Houston, a.c. gasoline bulk storage and lubrication sys., steel tanks, etc., Spec. 42-425, Bexar Co., from Slaughter-Myers, Inc., 1708 Sanger Ave., Dallas, **$50,000-$100,000.** CD 10/6.

†**Texas** — STORAGE SYSTEM — U. S. Eng., 25 St. and Avenue F, Galveston, a.c. gasoline storage and dispensing sys., Victoria Co., from Stein & Dawson, P. O. Box 1659, San Antonio, **$50,000-$100,000.**

★†**Washington** — IMPROVEMENTS — Civil Aeronautics Admin., 7 Regional Office, Boeing Field, Seattle, Oct. 22, imprvs., from Minnis & Moody, Johnson, Inc., and Vista Construction & Financing Co., P. O. Box 781, San Bernardino, Calif., **$3,488,358.** CD 10/7—ENR 10/8.

CONTRACTS AWARDED

†**Alabama**—ELECTRICAL DISTRIBUTION —U. S. Eng., Talladega, general contract electrical distr. installation, Talladega Co., to Miami Electric Contg. Co., Atlanta, Ga., **$100,000-$500,000.** Bids 10/14.

†**Alabama**—FUELING SYSTEM—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, a.c. fueling sys., Dallas Co. to Gulf City Constr. Co. Mobile. Est. **$40,000.**

†**Ala., Mobile** — PLANTING — Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., planting at Defense Housing Projects Ala. 1034 and Ala. 1033, to Walton & Curva, 206 Auditorium Bldg., Cleveland, O., **$46,800.**

†**Arizona**—ELECTRIC DISTRIBUTION SYSTEM—U. S. Eng., Albuquerque, N. M., outside electric distr. sys., to Commercial Electric Co., 209 1st Natl. Bank Bldg., Albuquerque, **$50,000-$100,000;** installing water, sanitary sewer and gas sys., to Insulated Homes, Inc., Albuquerque, N. M., **$100,000-$500,000,** both Pinal Co.

†**Arkansas**—IMPROVEMENTS—U. S. Eng., 300 Bway., Little Rock, imprvs., Pulaski Co., to Gillioz & Co. Inc., Monette, Mo., under **$500,000.**

†**Arkansas**—IMPROVEMENTS—U. S. Eng., P. O. Box 97, Memphis, Tenn., imprvs., Green Co., to Cartwright Constr. Co., Walnut Ridge, **$100,000-$500,000.**

†**Arkansas**—IMPROVEMENTS—U. S. Eng., P. O. Box 97, Memphis, Tenn., imprvs., Randolph Co., to Ziegler Constr. Co., American Natl. Bank Bldg., Nashville, Tenn., **$100,000-$500,000.**

†**California**—IMPROVEMENTS—U. S. Eng., 74 New Montgomery St., San Francisco, imprvs., San Francisco Co., to L. C. Smith, 1st and Railroad Sts., San Mateo. Awarded 10/23.

★†**California** — IMPROVEMENTS — U. S. Eng., 751 S. Figueroa St., Los Angeles, imprvs., duct work under streets, etc., San Bernardino Co., to Johnson, Inc., P. O. Box 781, San Bernardino, less than **$1,000,000.** Awarded 10/21.

†**Connecticut**—RAILROAD SIDING — U. S. Eng., 819 Industrial Trust Bldg., Providence, R. I., railroad siding, No. 699-43-87, Hartford Co., to Alexander Jarvis Co., Center St., Manchester. Est. under **$50,000.** Bids 10/13.

†**D. C., Wash.**—GRADING, etc.—Natl. Park Service, Dpt. Interior, Interior Bldg., 19 and C Sts. N.W., grading, topsoiling, seeding, Anacostia Park Stadium site, to Logan Pingree Co., Inc., 3100 K St. N.W., **$45,200;** at Langston, Oxen Run, Ft. Grebble and Ft. Dupont Recreation Centres and playgrounds, to W. B. Freeman, RFD 4, Temple Hills, Md., **$95,000.**

†**Florida** — ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, electrical distr. sys., Inv. Neg-Jax 43-262, Hillsborough Co., to Rockledge Const. Co., Rockledge, under **$50,000.** Awarded 9/24.

†**Florida**—FENCES—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, fences, Inv.-Neg-C.Y.-43-1, Dixie Co., to C. E. McCaskill, Jr., Gainesville, Ga., under **$50,000.**

†**Florida** — IMPROVEMENTS — U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, imprvs. Inv.-Neg-B C.-43-5, Clay Co., to Fred Howland, Inc., Postal Bldg., Miami, under **$50,000.** Awarded 10/16.

Fla., Jacksonville — IMPROVEMENTS — W. E. Sheddan, city engr., imprvs. **WPA.** Est. **$239,000.**

†**Georgia** — IMPROVEMENTS — U. S Eng., Post Office Bldg., Savannah, imprvs., Bullock Co., to Artley & Co., 504 E. Bay St., Savannah.

†**Idaho**—IMPROVEMENTS—U. S. Eng., 32 Exchange Pl., Salt Lake City, Utah, imprvs. grading, drainage sys., to Spencer B. Lane, 251 Kearny St., San Francisco, Calif., under **$50,000.** Bids 10/15.

†**Ill., Herrin** and **Marion**—SITE IMPROVEMENTS—Pub. Housing Auth., 201 N. Wells St., Chicago, site imprvs., utilities, sewers, water distr. sys., electrical overhead distr. sys., lawns and planting, Ill. 11122, Herrin, and Ill. 11123, Marion, to Lybarger Constr. Material Co., Granite City, **$248,305.**

†**Indiana**—GAS FUELING SYSTEM—U. S. Eng., Federal Bldg., Louisville, Ky., a.c. gas fueling sys., Jackson Co., to Walters Construction Co., 37-49 58 St., Woodside, N. Y.

†**Indiana** — IMPROVEMENTS — U. S. Eng., 612 Federal Bldg, Louisville, Ky., electrical distr. lines, Marion Co., to Edens-Marsen Co., 412 Bankers Trust Bldg., Indianapolis; sewers, to Sheehan Constr. Co., 205 Holliday Bldg., Indianapolis. Awarded 10/20. CD 10/12—ENR 10/15, under CA.

†**Kansas**—ELECTRIC DISTRIBUTION SYSTEM—U. S. Eng., Albuquerque, N. M., electric distr. sys., Ford Co., to Wedell & Shrum Electric Co., Great Bend. Est. under **$50,000.**

†**Kentucky**—IMPROVEMENTS—U. S. Eng., P. O. Box 59, Louisville, imprvs., Hardin Co., to Lain Bros. Constr. Co., 410 S. 5 St., Springfield, Ill.

†**Louisiana**—FENCES—U. S. Eng., foot of Prytania St., New Orleans, fences, Inv. 43-140, to Atlas Fence Co., 924 W. Davis St., Dallas, Tex. Awarded 10/19.

†**Louisiana**—FUELING SYSTEM—U. S. Eng., foot of Prytania St., New Orleans, a.c. fueling sys. addn., Inv. 43-141, to William F. Kelly Co., 415 Baronne St., New Orleans. Bids 10/19, awarded 10/21. CD 10/13.

Louisiana — IMPROVEMENTS — Industrial Company, imprvs., bldgs., to Chris Larson Co., Maritime Bldg., New Orleans. Est. **$200,000.** J. G. White Eng. Corp., Interstate Bldg., New Orleans, engrs. and archts. CD 10/9—ENR 10/15.

†**Louisiana**—IMPROVEMENTS—U. S. Eng., foot of Prytania St., New Orleans, imprvs., Inv. 43-39, to A. M. Mutersbaugh, Lake Charles. Awarded 10/16.

†**Louisiana**—SITE IMPROVEMENTS — Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, Tex., site imprvs., La. 16034, to F. D. Welch, 503 1st Natl. Bank Bldg., Shreveport. **$125,895.** CD 9/10—ENR 9/17.

†**Maine** — CONSTRUCT... Park Sq. Bldg., Boston, ... concrete work, to M. Sp... 38 Chauncy St., Boston, **$100,000.** Bids 10/19.

†**Maine** — PARKING A... Park Sq. Bldg., Boston, ... Penobscot Co., to T. W... 61 Main St., Bangor. E... —ENR 10/22.

†**Maine**—WHARF—U. S... Bldg., Boston, Mass., tim... No. 175-43-NEG 108, ... Wyman & Simpson, In... Augusta. Est. under $5...

Massachusetts — IMPR... dustrial Company, imprv... Co., 2181 Washington St., ... ENR 9/3.

†**Massachusetts** — PAINTI... Park Sq. Bldg., Boston, ... 175-43-NEG 97, Plymouth ... McCassey Co., 16 Belkna... town. Est. under **$50,000.**

†**Massachusetts**—TROLLE... Eng., Park Square Bldg., ... Essex Co., to Boston Pulley ... Atlantic Ave., Boston, under...

Mass., Everett (br. Boston... TUNNEL—Boston Edison ... St., Boston, submarine tu... Connolly Co., 101 Alford ... **$245,000.** Jackson & Mor... James St., Boston, engrs.

★†**Michigan**—ELECTRICAL DISTRIBUT... —U. S. Eng., 700 Union Guardian Bldg., ... Detroit, electrical distr. sys., ... Daverman Co., Grand Rapids, ... **$1,000,000.**

†**Michigan**—GASOLINE FUELING SYSTE... —U. S. Eng., 700 Union Guardian Bldg., ... troit, gasoline fueling sys. and addns. ... revision existing sys., Wayne Co., to ... Avery Co., 147 W. Woodbridge St., ... less than **$50,000.**

Minn., Minneapolis—IMPROVEMENTS—... Innis Aviation Service, D. W. De Mattos, ... treas., 1413 Northwestern Bank Bldg., ... day labor. Over **$25,000.**

†**Mississippi**—IMPROVEMENTS—U. S. Eng., Post Office, Vicksburg, imprvs., Washburn Co., to Gulfcoast Constr. Co., Hattiesburg, **$100,000-$500,000.**

†**Mississippi**—LOADING PLATFORM—... ernment Agency, loading platform, to ... Constr. Co., Inc., 174 Louisselle St., ... Ala., **$84,000.** Awarded 10/17.

†**Missouri** — CLEARING, etc. — U. S. Eng., 800 U. S. Court House & Custom House, St. Louis, clearing, grubbing, grading, surface drainage sys., stabilized open storage areas, roads, ramps, Neg. No. 1103-43-73, to Cameron, Joyce & Co., 17 S. 7 St., Keokuk, Ia. Est. **$100,000-$500,000.** Bids 10/16.

†**Nevada** — CONSTRUCTION — U. S. Eng., 4792 Sepulveda Blvd., San Bernardino, Calif., construction Clark Co., to Gibbons & Reed Co., 259 W. 3 South St., Salt Lake City, Utah. Est. under **$50,000.**

†**Nevada**—INSULATION, etc.—U. S. Eng., 751 S. Figueroa St., Los Angeles, Calif., insulation and heating bldgs., Nye Co., to Modern Builders Constr. Co., 2812 Long Beach Blvd., Long Beach, Calif., under **$50,000.** Awarded 10/19.

★†**New Mexico** — IMPROVEMENTS — U. S. Eng., Albuquerque, imprvs., bldgs. utilities, to R. J. Minton Constr. Co., Crissey Field, San Francisco, Calif., less than **$1,000,000;** facilities, roads, drainage, to Allison, Armstrong & Thygesen, Roswell, less than **$1,000,000,** foregoing in De Baca Co. Awarded 10/21.

†**New Mexico** — IMPROVEMENTS — U. S. Eng., Albuquerque, imprvs., Eddy Co., to N. B. Hoffman, Mid-Continent Bldg., Fort Worth, Tex., under **$100,000.** Awarded 10/...

★†**New Mexico** — IMPROVEMENTS — U. S. Eng., Albuquerque, imprvs., Lea Co., to Reynolds & Sutton, Tyler, Tex. **$500,000-$1,000,000.** CD 9/29—ENR 10/1.

†**North Carolina**—DRIVEWAYS, etc.—Industrial Company, driveways and parking areas, Alamance Co., to Kiker & Yount, Reidsville. Federally financed. Linberg Engineers, Burlington, engrs. Bids 10/15.

★†**Ohio**—STORAGE PARK—U. S. Eng., ... Union Guardian Bldg., Detroit, Mich., ... age park, Lorain Co., to D. D. Mullett ... 224 9 St., Pittsburgh, Pa., less than **$1,000,...**

†**Oklahoma**—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., 416 Wright Bldg., Tulsa, electrical distr. sys., Kay Co., to Olsen Assenmacher & Rokahr, P. O. Box ... Lincoln, Neb., under **$50,000.** CD 10/7—ENR 10/15, under Public Bldgs.

†**Oklahoma**—ELECTRICAL DISTRIBUTION SYSTEM — U. S. Eng., 416 Wright Bldg., Tulsa, electrical distr. sys., Muskogee Co., to Oklahoma Electric Co., 610 S. Main St., Tulsa, **$50,000-$100,000.** CD 9/2—ENR 9/...

†**Oklahoma**—GRADING, etc.—U. S. Eng., 416 Wright Bldg., Tulsa, addnl. grading, drainage, paving, etc., Sol. 957-Neg-43-..., Noble Co., to A. J. Spicer, P. O. Box ... Oklahoma City, **$100,000-$500,000.**

†**Oklahoma**—IMPROVEMENTS—U. S. Eng., 416 Wright Bldg., Tulsa, imprvs., Kiowa Co...

UNCLASSIFIED (Contracts Awarded, Cont'd.)

to Vilbig Const. Co., Paris and Bourbon Sts., Dallas, **$100,000-$500,000.** CD 9/15—ENR 9/17.

†Oklahoma—IMPROVEMENTS—U. S. Eng., 416 Wright Bldg., Tulsa, imprvs., concrete paving, Oklahoma Co., to Dunning, Jamespaving, Oklahoma Co., to Dunning, Jamesson, SE 29 St., Oklahoma City.

★**†Okla., Clinton**—IMPROVEMENTS—Yards & Docks Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., imprvs., NOY 5802, to Chas. M. Dunning Constr. Co. Patterson Steel Co. and G. H. James Co., P. O. Box 1925, Oklahoma City, Okla., **$7,044,000.** Awarded 10/17. CD 9/16.

★**†Pennsylvania**—STORAGE FACILITIES—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., addnl. storage facilities, NOY 5572, to John A. Robbins Co., Inc., 10 S. 18 St., Phila., **$1,225,000.**

†South Carolina—ELECTRICAL DISTRIBUTION SYSTEM—U. S. Eng., Port Office Bldg., Savannah, Ga., electrical distr. sys., to Aldrich Electric Constr. Co., Augusta, Ga. Bids 10/17. CD 10/23—ENR 10/29 under CA.

†Texas—CLEARING, etc.—U. S. Eng., 416 Wright Bldg., Tulsa, clearing, grubbing, grading, drainage, asphalt paving, to Sitton & Herbert, Dalhart, **$100,000-$500,000***** clearing, grading, drainage, hard paving, etc., to Standard Paving Co., Tulsa, Okla., **$100,000-$500,000,** both Solic. 957-Neg-43-71***addnl. dirt work, hard paving, Solic. 957-Neg-43-72, to Bell & Braden, Dalhart, **$100,000-$500,000,** all foregoing in Dallam Co. CD 10/6.

†Texas—ELECTRICAL SYSTEM—U. S. Eng., Fort Sam Houston, outdoor overhead electrical distr. sys., facilities, Spec. 48-347, Matagorda Co., to Garrett Constr. Co., P. O. Box 1189, Bay City, under **$50,000.** Bids 9/14. CD 9/10.

†Texas—GASOLINE STORAGE, etc.—U. S. Eng., 25 St. and Avenue F, Galveston, a. c. gasoline storage fuel and dispensing sys., Tom Green Co., to Stein & Dawson, P. O. Box 1659, San Antonio, under **$50,000.**

†Texas—GASOLINE DISPENSING SYSTEM, etc.—U. S. Eng., 225 St. and Avenue F, Galveston, a. c. gasoline, fuel and dispensing sys., Tom Green Co., to Stein & Dawson, P. O. Box 1659, San Antonio, **$50,000-$100,000.**

★**†Texas** — IMPROVEMENTS — U. S. Eng., Fort Sam Houston, imprvs., all dirt work, concrete paving, Spec. 42-283, Taylor Co., to Harco Constr. Co. and Waco Co., Waco, **$1,000,000-$5,000,000.** CD 10/19—ENR 10/22, under LB.

†Texas — RAILWAY TRACK — U. S. Eng., Fort Sam Houston, 2½ mi. railway track, ballasting, turnouts, etc., Spec. 42-358, to Martin & Grace, 711 Rio Grande Life Bldg., Dallas, **$50,000-$100,000.** Bids about 10/12. CD 10/6.

†Texas — SITE IMPROVEMENTS — Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, site imprvs., Tex 41079, to Beaumont Const. Co., Beaumont, **$189,653,** cost-plus-fixed-fee. CD 10/5—ENR 10/22.

†Texas—STORAGE SYSTEM—U. S. Eng., 25 St. and Avenue F, Galveston, storage sys., facilities, Victoria Co., to J. W. Bateson, Construction Bldg., Dallas, **$50,000-$100,000.** CD 10/13—ENR 10/15.

Tex., LaWard—OIL TEST WELL—G. W. Strakes, LaWard, drilling, casing, developing 7,300 ft. deep oil test well, to J. O. Nelson, Milam Bldg., San Antonio, approx. **$75,000.**

Tex., Los Angeles (near Cotulla) — TEST WELL—L. V. Manry & Associates, Cotulla, drilling, developing 5,600 ft. test well (crude oil) at location 10 mi. south of here, La Salle Co., to Rotary Drilling Co., Milam Bldg., San Antonio, **$60,000.**

Tex., Pearsall—OIL WELL—Wiegand Bros., Milam Bldg., San Antonio, drilling, casing, developing deep oil well, vicinity of here, force account. **$60,000.**

†Virginia—SPRINKLER SYSTEMS—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave., N.W., Wash., D. C., sprinkler systems, Spec. 10910, to Central Automatic Sprinkler Co., 247 Ashmead St., Phila., Pa. **$67,900.** Bids 9/30. CD 9/29.

†Washington—CONSTRUCTION—U. S. Eng., 800 3 Ave., Seattle, construction work, utilities King Co., to S. Bergeson, Wick & Dahlgren, P. O. Box 25, McChord Field, Tacoma, under **$50,000.**

†Washington—CONSTRUCTION—U. S. Eng., 810 3 Ave., Seattle, miscellaneous construction, King Co., to McRae Brothers, 2733 4 Ave. S., Seattle, under **$50,000.** CD 9/23—ENR 10/1.

Alta., Edmonton—IMPROVEMENTS—Dpt. Transport, Ottawa, Ont., imprvs., barracks, mess halls, garage, warehouse, etc., to G. H. Macdonald & Co., Ltd., Edmonton, about **$200,000.**

B. C., Vanderhoof—IMPROVEMENTS—Dpt. Transport, Ottawa, Ont., imprvs., clearing, grading, rolling, smoothing, etc., to Assiniboia Eng. Co., Calgary, Alta., about **$145,000.**

Newfoundland, Buchans—IMPROVEMENTS—Dpt. Transport, Ottawa, Ont., imprvs., to Armstrong Bros., Ltd., Perth, N. B., about **$425,000.**

P. E. I., Charlottetown—IMPROVEMENTS—Dpt. Transport, Ottawa, Ont., imprvs. grading, draining, concrete slab, etc., to Storms Contg. Co., Ltd., 49 Givens St., Toronto, Ont., about **$50,000.**

Que., Ancienne Lorette—IMPROVEMENTS—Dpt. Natl. Defense for Air, Ottawa, Ont., imprvs., addnl. bldgs., to Newton Constr. Co., Ltd., 150 Victoria St., Sherbrooke, **$130,000.**

Que., Montmagny—IMPROVEMENTS—Dpt. Natl. Defense, Ottawa, Ont., imprvs., surfacing, etc., at C. A. (B) Training Center, to Provincial Constr. Co., Ltd., 2750 Hill Park Rd., Montreal. **$25,000.**

Que., St. Isidore—RAILWAY SIDING—Dpt. Natl. Defense, Ottawa, Ont., railway siding, to Canadian National Rys., 360 McGill St., Montreal, **$29,000.**

Yukon Territory, Aishihik — IMPROVEMENTS—Dpt. Transport Ottawa, Ont., imprvs., radio range, transmitter, power house, airways, barracks, etc., to Bennett & White Constr. Co., Ltd., 510 W. Hastings St., Vancouver, B. C. about **$125,000.**

LATIN AMERICA

Mexico — Mexican Federal Govt., plans plant. $3,000,000. L. and R. Mendoza & Associates, c/o Dpt. P. Wks., Mexico City, operators.

Mexico—Mexican Government, Scrita. de la Marina, Balderas, 45, Mexico, D. F., plans shipyard and drydock on San Juan de Ulua Island, Vera Cruz Harbor, **Vera Cruz,** $5,150,000; Mexican Govt., Scrita de Asistencia Publica Mexico, D. F., plans 300 bed hospital for agrarians, **Torreon, Coahuila,** $130,000.

PUBLIC BUILDINGS

PROPOSED WORK

★**†Alabama**—War Dpt., 20 St. and Constitution Ave. N.W., Wash., D. C., bldgs., Etowah Co. $5,000,000.

★**†Alabama**—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, made plans bldg., Tuscaloosa Co. $750,000.

California—Moore Dry Dock Co., foot of Adeline St., Oakland, nursery, community center, playgrounds, parking lots, administration bldg., Alameda Co.

†California—U. S. Eng., Fresno, Calif., bldgs., Spec. 234-A, Fresno Co.

†California—U. S. Eng., Fresno, bldg., Spec. 234-B, Kings Co.

★**†California** — Henry J. Kaiser Co., 1522 Latham Sq. Bldg., Oakland, plant expansion, San Bernardino Co. $27,000,000. Federally financed.

†California—U. S. Eng., 1209 8 St., Sacramento, miscellaneous bldgs., Spec. 234-C, San Joaquin Co.

†California—U. S. Eng., Wright Bldg., Sacramento, bldgs., Spec. 256, San Joaquin Co.

California — San Bernardino Co. Housing Auth., Court House, San Bernardino, plans by J. D. Harnish, 212 E. B St., Ontario dormitory housing. Marsh, Smith & Powell, 516 Archts. Bldg., Los Angeles, assoc. archts.

†California—Housing Authority Contra Costa Co., 700 D St., Martinez, bldgs., facilities, stores, school, 120 acre site, near Hy. 40, Contra Costa Co., for NHA. To exceed $200,000. E. Geoffrey Banks, 605 Market St., San Francisco, K. O. Narbett, 468 13 St., Richmond, and E. T. Spencer, 369 Pine St., San Francisco, archts. P. R. Jones, Box 1294, Richmond, superv. engr.

†California—Industrial Company, soon lets contract Permanente Foundation Hospital addn., Alameda Co. $150,000. Federally financed. B. M. and D. B. Clark, 310 University Ave., Palo Alto, archt.

★**†California**—Benicia Housing Auth., Box 213, Benicia, plans by R. Guerne de Lappe, 5365 Bway., Oakland, housing, for NHA. Over $1,000,000. CD 10/16—ENR 10/22. Funnett-Parez & Hutchison, 58 Sutter St., San Francisco, engrs. CD 10/16—ENR 10/22.

†Conn., Norwalk—Norwalk General Hospital, R. N. Brough, supt., bids in November. 4 story, brick, steel maternity hospital. $350,000. **FWA.** Visscher & Burley, 51 E. 42 St., New York, N. Y., archts. CD 10/9—ENR 10/15.

D. C., Wash. — District Comrs., District Bldg., revised plans Wm. Benning School, north side Minnesota Ave. between Bennings Rd. and Foote St. N.E. $97,500.

†Fla., Fort Meyers—City plans 1 story recreational bldg. $46,603. **FWA.**

†Georgia—U. S. Eng., U. S. Post Office Bldg., Savannah, addnl. bldgs., Liberty Co.

★**†Georgia**—U. S. Eng., Post Office Bldg., Savannah, bldg., Thomas Co. Over $3,000,000.

†Illinois—Pub. Housing Auth., NHA. 201 N. Wells St., Chicago, bids soon housing units, Ill. 11072-11073. Cervin & Stuhr, Safety Bldg., Rock Island, archts.

Ill., Lincolnwood (P. O. Morton Grove)—Bd. Educ. bids soon school. $180,000. J. D. Chubb, 109 N. Dearborn St., Chicago, archt. CD 5/6—ENR 5/28.

★**†Indiana**—Evansville Pub. Housing Auth., City Hall, Evansville, plans by Allied Architects & Engineers, 922 Archts. & Bldrs. Bldg., Indianapolis, defense housing, $1,500,000; plans by E. C. Berendes, 121 N.W. 4 St., Evansville, housing, $750,000; plans by A. M. Strauss, 415 Cal-Wayne Bldg., Fort Wayne, housing, $2,250,000, for NHA. CD 10/16—ENR 10/22.

★**†Kan., Topeka**—U. S. Eng., 10 E. 17 St., Kansas City, Mo., bldg. addn. To exceed $1,000,000.

†Kansas—Pub. Housing Auth., NHA, Dierks Bldg., Kansas City, Mo., plans by Overend & Boucher, Brown Bldg., Wichita, schools and community bldgs.

★**†Kentucky**—U. S. Eng., Federal Bldg., Louisville, bldgs. Union Co.

★**†Kentucky**—U. S. Eng., 306 U. S. Courthouse, Nashville, Tenn., bldg. expansion. Over $3,000,000.

†La., Gretna—Federal Works Agency, Electric Bldg., Fort Worth, Tex., public health service bldg. $23,565 gr.

†Maryland—U. S. Eng., 1 and Douglas Sts. N.W., Wash., D. C., acquisition and altering National Park College.

★**†Md., Bethesda**—Federal Works Agency, 18 and F Sts. N.W., Wash., D. C., Chevy-Chase Bethesda Hospital. $650,000.

†Md., Cedar Point—Pub. Housing Auth., NHA, Temporary Bldg. 2, 19 and D Sts. N.W., Wash., D. C., 150 housing units, Md 18191.

★**†Md., Cheverly**—Federal Works Agency, 18 and F Sts. N.W., Wash., D. C., hospital, nurses' home. $600,000.

†Md., Elkton—Pub. Housing Auth., NHA, Temporary Bldg. 2, 19 and D Sts. N.W., Wash., D. C., plans by G. Morris Whiteside, duPont Bldg., Wilmington, Del., dormitories, accommodations, community bldgs. with cafeterias, MD-18154. CD 10/16—ENR 10/22.

†Mass., Quincy—Comr. P. Wks., Municipal Offices, City Hall, soon takes bids superstructure, temporary hospital addn., Mass. 19-150. $150,000. **FWA.** P. A. and C. Coletti, 168 Dartmouth St., Boston, archts. CD 9/2—ENR 6/4.

†Mississippi — Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., plans by N. W. Overstreet, 201 Lamar St., Jackson, housing and apartments. CD 10/8—ENR 10/15.

†Miss., Gulfport—War Dpt., 20 St. and Constitution Ave. N.W., Wash., D. C., 100 dormitory apartments, Miss-2212. Reassigned from Public Housing, NHA.

†Miss., Meridian—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., 79 permanent dwellings, Miss 4-5.

Miss., New Augusta—State Bd. Health, c/o Dr. J. F. Underwood, Old Capitol Bldg., Jackson, detention home.

†Miss., Pascagoula — Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., development ordered 140 unit dormitory apartments, Miss-22027.

†Mo., Lebanon—Louise G. Wallace Hospital, c/o Bd. Trustees, Lebanon, plans by E. T. Friton, c/o LaBeaume & Klein, 315 N. 7 St., St. Louis, and bids soon, 2 story, 40x104 ft. brick hospital addn., altering present bldg. $123,700. **FWA.**

†Neb., Alliance—Federal Works Agency, Court House Bldg., St. Paul, Minn., recreational bldg. for USO. $80,000.

†Neb., Lincoln—Federal Works Agency, Court House Bldg., St. Paul, Minn., recreational bldg. for USO. $50,000.

†New Jersey—Federal Works Agency, 2 Lafayette St., New York, N. Y., recreational center, Middlesex Co. $50,000.

†New Jersey—Defense Plant Corp., 811 Vermont Ave. N.W., Wash., D. C., plant. Over $200,000. Automatic Winding Company, Inc., 900 Passaic Ave., Newark, operators. CD 1/29—ENR 2/5.

†New Jersey—U. S. Eng., 6 and Walnut Sts., Phila., Pa., engineer-architect services by Parsons, Klapp, Brinkerhoff & Douglas, 143 Maiden Lane, New York, N. Y., addnl. facilities, Cumberland Co.

★**N. J., Paterson**—**Paterson General Hospital, 528 Market St., plans by F. J. Vreeland, 140 Market St., hospital alterations, addns. $540,000.**

N. J., Skillman—State Dpt. Institutions & Agencies, State House, Trenton, plans by C. N. Leathem, W. Hanover St., bldg. addns., alterations, Skillman Village for Epileptics. $200,000.

N. J., Vineland—State, Dpt. Institutions & Agencies, W. Hanover St., Trenton, plans by Chas. N. Leathem, W. Hanover St., Trenton, altering State School, $250,000.

N. J., Woodbine—State Dpt. Institutions & Agencies, Hanover St., Trenton, plans by Chas. N. Leathem, W. Hanover St., Trenton, altering bldgs. Woodbine Colony for Feebleminded. $150,000.

†New Mexico—U. S. Eng., Albuquerque, bldgs., underground utilities, facilities, Bernalillo Co. $90,000.

†New York—Defense Plant Corp., 811 Vermont Ave. N.W., Wash., D. C., plant. Industrial Company will operate. Over $75,000.

PUBLIC BLDGS. (Proposed Work, Cont'd.)

†**New York**—Port Chester Housing Auth., 110 Willet Ave., Port Chester, housing, for NHA. $150,000 or more.

†**N. Y., Buffalo**—Pub. Housing Auth., NHA, 270 Bway., New York, priority certificate granted, 150 unit permanent housing, NY-30036.

†**N. C., New Bern**—Federal Works Agency, 606 State Planters Bank Bldg., Richmond, Va., Good Shepherd Hospital addn. $34,300.

†**O., Dayton**—Pub. Housing Auth., NHA, 9 St. and Prospect Ave., Cleveland, development ordered 250 unit demountable housing, Ohio-33058.

★†**Pennsylvania**—Allegheny Housing Auth., 201 County Office Bldg., Pittsburgh, plans by J. W. Hoover, Keystone Bank Bldg., Pittsburgh, brick or frame housing, Pa. 36-109, for NHA. $600,000. CD 9/17—ENR 9/24.

†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York, N. Y., plans by G. Daub and E. Wigham, 315 S. 15 St., Phila., housing.

†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York, N. Y., housing, Crawford Co. Over $150,000.

†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York, N. Y., housing, Mercer Co.

†**Pa., Geneva**—Pub. Housing Auth., NHA, 270 Bway., New York, N. Y., development, ordered 80 unit permanent housing, Pa. 36352; 80 unit demountable housing Pa. 36353.

†**R. I., Newport**—Newport Hospital, Friendship St., revised plans by Wigham & Van Allen, 315 S. 15 St., Phila., Pa., brick, steel hospital addn., RI 37-141. **FWA.** CD 5/21—ENR 5/28.

†**R. I., Providence**—Miriam Hospital, 31 Parade St., plans completed by Barker & Turoof, 1022 Grosvenor Bldg., hospital addn., RI 37-144. **FWA.** CD 5/21—ENR 5/28.

†**S. C., Columbia**—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., priority certificate granted 42 unit permanent housing, S. C. 2-1A.

†**S. D., Provo**—Bd. Educ., school. $45,000. **FWA.**

†**Tennessee** — Union City Housing Auth., B. C. Cox, chn., Union City, defense housing, for NHA. $275,000.

†**Texas**—Bureau Mines, Dpt. Interior Interior Bldg., E. St. between 18 and 19 Sts. N.W., Wash., D. C., bids soon, altering plant. $125,000. Industrial Company will operate. Federally financed.

★†**Texas**—Pub. Housing Auth., NHA, Electric Bldg., **7 and Taylor Sts., Fort Worth,** plans by H. F. Kuehne, Bertram & Gieseeke, and R. Max Brooks, 904 Littlefield Bldg., Austin, housing, Bell Co. $2,000,000.

†**Texas**—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, dwelling unit housing, Moore Co.

†**Texas**—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, plans by Geren, Clarkson, Pelich & Rady, engrs. and archts., Insurance Bldg., Fort Worth, housing addn., Proj. 41-221, Tarrant Co.

†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, bldgs., underground utilities, facilities. $85,000.

†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, addnl. miscellaneous bldgs., underground utilities, Webb Co. $90,000.

★†**Texas**—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, dormitory unit housing, Tex. 41362; dormitory units, Tex. 41363; family unit housing, Tex. 41364; family unit housing, Tex. 41365.

†**Texas**—Pub. Housing Auth., NHA, Electric Bldg., Fort Worth, revised plans by Hedrick & Lindsley, Inc., 808 Southern Standard Bldg., Houston, permanent housing, Tex. 41133. Bids 9/29 rejected. CD 10/6—ENR 10/8 under LB.

★**Tex., Austin**—State Bd. Control, state office and stores bldg. $2,000,000. Amendment will be voted on Nov 3 to authorize funds.

†**Tex., Freeport** — Freeport Independent School List., plans by A. B. Dow, 2207 Commerce Bldg., Houston, high school. $150,000. **FWA.**

†**Tex., Hooks**—Federal Works Agency, Electric Bldg., Fort Worth, plans by H. W. Harner, 411 State Line, Texarkana, school, Tex.41-284. $228,700.

Tex., Paris—Town, J. M. Crook, mayor, recreation center. $75,000. Applied for FWA funds.

★†**Va., Alexandria**—Federal Works Agency, 606 State Planters Bldg., Richmond, hospital addns., remodeling present bldg. $700,000.

★†**Va., Arlington**—Federal Works Agency, 606 State Planters Bldg., Richmond, Arlington Co. hospital. $600,000.

†**Va., Falls Church**—Pub. Bldgs. Admin., North Interior Bldg., Wash., D. C., 2 classrooms, elementary bldg. at Woodlawn School, 3 classrooms bldg. at Groveton School, 16 room Junior-Senior high school, Falls Church (Emergency), **VA. 44-219. $168,750. FWA.**

★†**Washington**—Bremerton Housing Auth., Bremerton, plans by Naramore, Grainger, Johanson & Associates, Dexter Horton Bldg., Seattle, dwelling units and dormitory apartments, for NHA. $10,000,000.

†**W. Va., Morgantown** — Federal Works Agency, 606 State Planters Bldg., Richmond, Va., plans by Tucker & Silling, Masonic Temple, Charleston, Monongalia General Hospital addn. $115,000. **FWA.** CD 10/8—ENR 10/15.

†**W. Va., Point Pleasant**—War Dpt., 20 St. and Constitution Ave. N.W., Wash., D. C., 800 dormitory units. W. Va. 46036. Reassigned from Pub. Housing Auth., NHA.

†**Wisconsin**—U. S. Eng., 408 Federal Bldg., Milwaukee, Toltz, King & Day Inc., 1509 Pioneer Bldg., St. Paul, Minn., remodeling bldg. $250,000.

†**Pacific Northwest**—U. S. Eng., 800 3 Ave., Seattle, Wash., bldg., Inv. 201.

†**Pacific Northwest**—U. S. Eng., 800 3 Ave., Seattle, Wash., bldgs., Inv. 199.

†**Pacific Northwest**—U. S. Eng., 800 3Ave., Seattle, Wash., bldg., Inv. 193; bldg., Inv. 196; bldg. and electrical work, Inv. 194; extending bldg., Inv. 198; steam distr. sys.

★**Canada**—Secretary Munitions & Supply, Ottawa, Ont., bids soon, 10 explosives and chemicals plants. $9,000,000-$12,000,000.

Ont., Renfrew—Wartime Housing Ltd., 55 York St., Toronto, bids soon, 70 addnl. houses. $150,000-$165,000.

Que., Rigaud—Rev. Clercs de St. Viateur, 1145 St. Viateur Ave. W., Montreal reconstructing 2 and 3 story bldgs., destroyed by fire. Rev. E. Martineau, Rigaud, dir.

Ont., Sarnia—General Hospital Bd., 220 N. Milton St., plans by N. B. Forbes, 197 N. Christina St., 2 story, bsmnt. wing addn. hospital. $260,000. Election in December. CD 9.23—ENR 6/19.

★**Ont., Sudbury**—Wartime Housing Ltd., 55 York St., Toronto, bids soon, 300 houses, Minnow Lake, Trout Lake and Lake Ramsey areas. $650,000.

BIDS ASKED

Bids Asked About November 2

†**New Jersey**—Newark Housing Auth., Newark, addnl. work housing. NJ 28072, for NHA.

Bids Asked November 4

★†**N. C., Wilmington**—City, J. C. Roe, pres. Bd. Managers, 3 story addn. James Walker Memorial Hospital. $500,000. **FWA.** CD 10/8—ENR 10/8.

†**Pennsylvania** — Chester Housing Auth., Community Bldg., Lamokin Village, Chester, housing, Pa. 36265, Delaware Co., for NHA. Extended date. CD 10/13—ENR 10/15.

Ont., Ottawa—Secretary Dpt. P. Wks., Ottawa, 2 story, bsmnt., 48x166 ft. with two 42x47 ft. and 49x116 ft. wings, brick Physical Metallurgy Research Laboratory for Dpt. Mines & Resources, Booth St. $175,000-$200,000.

Bids Asked November 5

★†**Ohio**—Pub. Housing Auth., NHA, 9 St. and Prospect Ave., Cleveland, permanent housing, Ohio 33142.

†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, bldgs., gas and water distr. sys., extens., sanitary sewerage sys. exten., streets, roads, drainage, Cameron Co. Plans deposit $50.

†**Alaska, Sitka** — Federal Works Agency, Alaska Bldg., Seattle, Wash., recreation bldg. $60,000. Plans deposit $10. H. Foss, Juneau, archt.

Que., St. Hyacinthe—H. H. Turnbull, Dpt. Munitions & Supply, Ottawa, Ont., 16 bldgs., Naval Training Center for Dominion Govt. $350,000. Dpt. Naval Affairs, Ottawa, Ont., archts. CD 9.30—ENR 10/15.

Bids Asked November 6

†**Mo., St. Louis**—Public Bldgs. Admin., F. Rothwell, custodian, 507 U. S. Court House & Custom House, St. Louis, resetting coping stone, etc., at U. S. Court House and Custom House, K. L. Hulisick, 514, Post Office, Kansas City, Mo., acting dist. engr.

Bids Asked November 7

†**North Carolina**—Elizabeth City Housing Auth., Elizabeth City, dormitory apartments and dwelling units, for NHA. J. J. Rowland, Kingston, archt. Tentative bid date.

Bids Asked About November 7

†**New Mexico** — U. S. Eng., Albuquerque, housing, facilities, Lea Co. $200,000. Plans deposit $50.

Bids Asked November 10

★†**New York**—Buffalo Housing Auth., 392 Perry St., Buffalo, permanent housing, NY 2-4. $1,873,000. Extended date. F. C. Backus, 366 Delaware Ave., Buffalo, archt. CD 10/26—ENR 10/15.

Bids Asked November 12

†**California**—Bureau Reclamation, Denver, Colo., metalwork for stop-log guides and seats for penstock intake structure at Keswick Power Plant, Kennett Div., Central Valley Project. Spec. 1675-D.

Bids Asked November 17

†**Ariz., Nogales**—Office District Eng., Pub. Bldgs. Admin., 508 16 St., Latham Sq. Bldg., Oakland, Calif., interior [illegible] U. S. Immigration Station [illegible] interior painting

Bids Asked Nov[illegible]

†**N. H., Berlin**—Office [illegible] Engr. Pu[illegible] Bldgs. Admin., 1201 Cust[illegible] house, Boston, Mass., driveway and misc[illegible] repairs at U. S. Post Office.

Bids Asked [illegible]

★†**Kansas**—U. S. Eng., [illegible] Wright Bldg. Tulsa, Okla., Contr. 3, [illegible] bldgs., water sewer, gas sys., outside [illegible] distr. sys., $2,250,000, plans deposit $[illegible] contr. 1, grading, clearing, paving, over[illegible] plans and spec. posit $30; Contr. 2, shaping [illegible] plans de[illegible] over $25,000, plans depos[illegible] and spec. boundary fencings, over [illegible] going in Barton Co.

†**Maine**—U. S. Eng., Park S[illegible] Bldg. Boston, Mass. (selected bidders), bl[illegible] No. 123, Aroostook Co.

Ont., Camp Borden—Secretary [illegible] Dpt. Munitions & Supply, Ottawa, [illegible] bed hospital addn., for Dpt. Natl. Defens[illegible] Ottawa. $[illegible] 000-$200,000. CD 11/12—EN[illegible] 11/20.

LOW BIDDERS

★†**Alabama**—U. S. Eng., [illegible] Golsden, general contract bldgs., Etowah [illegible] to Algernon Blair Co., 1st Natl. Bank [illegible] Montgomery; plumbing and heating, [illegible] Tully Plumbing & Heating Co., 1604 2 Ave. S. Birmingham. Est. **$500,000.**

†**California** — Dpt. Agriculture, Emergency Rubber Project, P. O. Box 1[illegible] 523 S. Main St., Salinas, bldg., Monterey [illegible] Counties Constr. Co., 159 Tow[illegible] St., Salinas, 90 days **$62,900,** 60 days $64,900. CD [illegible]

★†**California**—U. S. Eng., 751 S. Figueroa St., Los Angeles, Oct. 21, civilian defense housing, Spec. 300, San Bernardino, [illegible] Schedule A, from Flodine-Nordin Constr. Co., 3030 Exposition Blvd., Los Angeles, less than **$1,000,000;** Schedule B, from J. S. Metzger & Son, 3045 Gilroy St., Los Angeles, less than **$1,000,000.** Bids 10/21. CD 10/15.

★†**Connecticut**—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., Oct. 22, C. E. & F. Construction Co., 94 Wells St., Bridgeport, 324 units Success Park, Conn. con. **$1,098,000** alt. plus **$29,500;** 176 units Fairfield Ave. Housing, Conn. 6056, $612,000 alt. **$15,000;** both projects **$1,708,000** alt. $44,000. CD 10/13—ENR 10/15.

†**Ind., Gary**—Bd. Directors Methodist Hospital of Gary, Inc., 1600 W. 6 St., Oct. 13, 3 story, bsmnt., 53x185 ft. hospital addn., from Lloyd Bldrs. Inc., 185 N. Wabash Ave., Chicago, Ill., **$263,000. FWA.** CD 10/8—ENR 9/17.

†**Louisiana**—U. S. Eng., foot of Prytania St., New Orleans, Oct. 17, bldgs., facilities, etc., from R. P. Farnsworth & Co., 1515 Salcedo St., New Orleans. CD 10/9.

★†**New Jersey**—Pub. Housing Auth., NHA, 270 Bway., New York, N. Y., housing Proj. NJ 28044, from George Colon Const. Co., 103 E. 125 St., New York, N. Y. (A) **$740,000,** (B) **$714,000,** (C) $722,000, (D) **$696,000.** CD 10/19—ENR 9/24.

†**Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York, N. Y., Oct. 23, housing, Pa. 36264, Delaware Co., from Edward Fay & Son, 244 N. 55 St., Phila., $397,000. CD 10/9—ENR 10/15.

†**Pennsylvania**—Allegheny County Housing Auth., 201 County Office Bldg., Pittsburgh, Oct. 20, housing, Project Pa. 36105, for NHA, from George Dreyman & Co., Starr Bldg., Pittsburgh. Base Bids **(1) $443,500,** (2) $460,500, **(3) $465,500,** (4) **$480,500.** CD 10/16—ENR 10/15.

†**South Carolina**—U. S. Eng., Post Office Bldg., Savannah, Ga., Oct. 16, bldgs., Greenwood Co., from Greenwood Lumber Co., Greenwood.

†**Texas**—U. S. Eng., 25 St. and Avenue F, Galveston, bldg., electrical, water, gas distr. sys. extens., etc., Midland Co., from McClellan Brown & McClellan, Waco, **$50,000-$100,000.** CD 9/23—ENR 10/1.

†**Wash., Bremerton** — School Dist. 100, Central School, 5 and Warren Sts., Oct. 15, high school, from H. F. Miller, 15 and Chester Sts., **$467,500. FWA.** CD 9/23—ENR 10/1.

★†**Wisconsin**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago, Ill., Oct. 16, housing, Project Wis. 47022, from B. W. Handler Constr. Co., 12 E. 13 St., Chicago, Ill., **$1,238,000.** CD 9/29—ENR 10/1.

CONTRACTS AWARDED

†**Alabama**—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, general contract bldgs., Inv. 569-43-229, Montgomery Co., to Bear Lumber Co., 400 Lee St., Montgomery.

★†**Alabama** — Industrial Company, general contract bldg. addn., to Andrew Weston Co., 7 E. 42 St., New York, N. Y. Est. **$5,000,000** incl. equip. Defense Plant Corp. will finance.

★†**Arizona**—U. S. Eng., Albuquerque, N. M., bldgs., facilities, Cochise Co., to A. Teichert & Sons, Inc., and J. C. Gist, 1846 37 St., Sacramento, Calif., **$1,000,000-$5,000,000.** CD 9/15—ENR 9/17.

★†**Arizona**—U. S. Eng., Albuquerque, N. M., bldgs., Pinal Co., to J. T. McDowell & Sons, 938 1st Natl. Bank Bldg., Denver, Colo., **$1,000,000-$5,000,000.** CD 10/8—ENR 10/8.

PUBLIC BLDGS. (Contracts Awarded, Cont'd.)

★**†California** — Industrial Company, group bldgs., reservoir, viaduct and railroad repair, to McNeil Const. Co., 5860 Avalon Blvd., Los Angeles, approx. **$1,000,000.** Federally financed.

†California — Industrial Company, plant, to C. Stockholm & Sons, 447 Alameda Co., Sutter St., San Francisco; fill, bulkheads, etc., to MacDonald & Kahn, Inc., 200 Financial Center Bldg., San Francisco. Federally financed.

†California—U. S. Eng., 74 New Montgomery St., San Francisco, bldg., to J. C. Monk & Son, 47 Tate Ave., Los Gatos and M. W. Reese, 1282 Minnesota Ave., San Jose; removing, relocating equipment, to W. R. Ballinger & Son, Inc., 50 Hawthorne St., San Francisco. Awarded 10/21.

†California—U. S. Eng., 74 New Montgomery St., San Francisco, Transit Shed 127 and classification shed 133, Alameda Co., to Cahill Bros., 206 Samsome St. and B. C. Gerwick, Inc., 112 Market St., San Francisco. Awarded 10/22.

†California—U. S. Eng., 74 New Montgomery St., San Francisco, altering bldgs., Marin to Carl J. Fung & Co., 700 Sacramento Co., San Francisco. Awarded 10/20.

†California—U. S. Eng., 74 New Montgomery St., San Francisco, military housing, Marin Co., to P. C. Gibson, 372 Velarde St., Mountain View. Awarded 10/19.

†California—U. S. Eng., 74 New Montgomery St., San Francisco, housing San Francisco Co. to M. A. Little, 1 Grand View Ave., San Francisco. Awarded 10/23.

†California—U. S. Eng., 74 New Montgomery St., San Francisco, bldgs., San Mateo Co., to O. C. Moroney, 1437 Drake Ave., Burlingame. Awarded 10/19.

†California — Industrial Company, altering store into dormitory hotel, to M. J. King, 231 Franklin St., San Francisco; electrical contract to Crown Electric Co., 447 Stevenson St., San Francisco. Federally financed.

★**Calif., San Diego**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., Supplementary Agreement 4, bldgs., NOY 4187, to Los Angeles Contg. Co. and O. W. Karn, 4816 W. Pico Blvd., Los Angeles, **$2,193,500.** Additional to CD 9/23, under CA

†Florida—U. S. Eng., Court House, Jacksonville, repair sheds, shop facilities, Dade Co., to Lester F. Preu Corp., 1440 Alton Rd., Miami Beach, under **$50,000.** Awarded 10/21.

†Florida—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, exten. facilities, Inv. Neg-Jax-43-206, Duval Co., to R. McDonald Smith, 3867 Arden St., Jacksonville. Est. under **$50,000.** Awarded 10/15.

†Florida—U. S. Eng., U. S. Courthouse & Customhouse, Mobile, Ala., bldgs., Leon Co., to Artley & Co., 504 E. Bay St., Savannah, Ga.

★**†Florida**—U. S. Eng., Court House, Jacksonville, bldgs., Inv. Neg. Jax 43-323, Orange Co., to Fred Howland, Inc., Postal Bldg., Miami, under **$1,000,000.** Awarded 10/22.

†Florida—U. S. Eng., Court House, Jacksonville, storehouse and ward, Inv. Neg.-WPB-43-7, Palm Beach Co., to Brady Roofing & Tile Mfg. Co., 3260 N.W. 27 Ave., Miami, under **$50,000.**

★**†Florida**—U. S. Eng., U. S. Courthouse & Post Office, Jacksonville, prefabricated bldgs., Inv. Neg-Y.E.-43-8, Sarasota Co., to Sprague Constr. Co., Sarasota, under **$1,000,000.** Awarded 10/17.

†Georgia—U. S. Eng., Post Office, Savannah, bldg., Bullock Co., to Artley Co., 50 E. Bay St., Savannah. Bids 10/19.

†Georgia—U. S. Eng., Post Office Bldg., Savannah, bldg., Chatham Co., to R. W. Didschuneit, Candler Bldg., Atlanta.

†Georgia—U. S. Eng., Conley, bldgs., Clayton Co., to A. R. Abrams Const. Co., Kemper Bldg., Atlanta.

★**†Illinois** — Quincy Housing Auth., Stern Bldg., Quincy, 200 unit permanent housing, Ill-16-1, and 49 unit permanent housing, Ill.-16-2, for NHA, to T. J. Willis, Jonesville, Wis. Est. **$875,000.** Bids 9/4. CD 8/11—ENR 8/14.

†Illinois—U. S. Eng., U. S. Court House & Custom House, St. Louis, Mo., frame bldgs., St. Clair Co., to Bauer Bros. Constr. & Supply Co., 424 Lebanon Ave., Belleville. Bids 10/13.

★**†Ind., Burns City**—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago, Ill., transportation and erection 350 dwelling units manufactured by Libby-Owens-Ford, Ind. 12093, to Kuhne-Simmons Constr. Assn., Rantoul, Ill., **$587,155;** grading, sewage treatment plant, truck sewers, watermains for Ind. 12092 and 12093, to Curry Constr. Co., 200 E. 3 St., Bloomington, **$115,025.** CD 10/8—ENR 10/15 under LB.

★**†Kentucky**—U. S. Eng., Federal Bldg., Louisville, Ky., miscellaneous bldgs., Hardin Co., to J. D. Jennings, 235 E. Gaulbert St., Louisville, under **$1,000,000.**

†Maryland—War Dpt., 20 St. and Constitution Ave. N.W., Wash., D. C., bldgs., facilities, Harford Co., to Durham & Irvine, 1713 Rittenhouse Sq., Phila., Pa. Est. over **$100,000.** Bids 10/7. CD 10/5.

†Massachusetts—U. S. Eng., 819 Industrial Trust Bldg., Providence, bldg., No. 699-43-86, Hampden Co., to Ley Constr. Co., 1215 Main St., Springfield. Est. **$50,000.** Bids 10/9. CD 10/14.

†Massachusetts—U. S. Eng., Park Sq. Bldg., Boston, temporary housing, No. 175-43-NEG 114, Suffolk Co., to C. C. Temple, 184 Boylston St., Boston. Est. **$100,000-$500,000.**

★**†Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, bldgs., to A. H. Proksch, Iron River, less than **$1,000,000.**

★**†Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, bldgs., Alpena Co., to Strong Constr. Co., P. O. Box 86, Grand Rapids, less than **$1,000,000.**

★**†Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, bldgs., watermains, sanitary sewers, electrical distr. sys., Chippewa Co., to A. H. Proksch, Iron River, less than **$1,000,000.**

★**†Michigan**—U. S. Eng., 700 Union Guardian Bldg., Detroit, bldgs., Washtenaw Co., to Haberkorn - Barry Co., 2-135 General Motors Bldg., Detroit. Less than **$1,000,000.**

†New Hampshire—U. S. Eng., Park Square Bldg., Boston, Mass., temporary bldgs., No. 175-43-NEG 118, Hillsboro Co., to John Bowen Co., 129 Newbury St., Boston, Mass. Est. **$100,000-$500,000.** Bids 10/22. CD 10/20.

†New Jersey — Industrial Company, altering bldg., Essex Co., to Mahony-Troast Constr. Co., 657 Main Ave., Passaic; electrical work to Paul H. Jaehnig Inc., 106 Academy St., Newark, **$50,000.** Federally financed.

†New Mexico—U. S. Eng., Albuquerque, bldgs., Chaves Co., to Pecos Valley Co., Roswell. **$100,000-$500,000.**

†Ohio—Industrial Company, altering plant, to W. E. Wood Co., 4649 Humboldt St., Detroit, Mich.; electrical work, to F. J. O'Toole, Inc., 432 E. Bethune Ave., Detroit, Mich. Total Est. **$300,000.** Federally financed.

†Oregon—Defense Plant Corp., 811 Vermont Ave. N.W., Wash., D. C., plant, to Shofner Iron & Steel Works, 2770 N.W. Yeon Ave., Portland. Over **$125,000.**

★**†Oregon**—U. S. Eng., Pittock Blk., Portland, bldgs., roads, utilities, Nos. 698-275, Jefferson Co., to W. C. Smith, Bd. Trade Bldg., Portland, and Kuckenberg Constr. Co., 11104 N. E. Holman St., Portland, **$600,000-$700,000.** Bids 9/28, awarded 10/16.

★**†Pennsylvania**—Pub. Housing Auth., NHA, 270 Bway., New York, N. Y., temporary housing, Pa., 36258, to Anthony P. Miller, 3333 Arctic Ave., Atlantic City, N. J. **$693,000.** CD 10/23, under LB—ENR 10/15.

†South Carolina—U. S. Eng., Florence, military housing, roads, Florence Co. to Hubbard Constr. Co., Marion; electrical distr., Florence Co., to Palmetto Electrical Constr. Co., 149 Calhoun St., Charleston. Bids 10/17.

★**†Tennessee**—U. S. Eng., 306 U. S. Courthouse, Nashville, bldgs., plumbing, heating, electrical work, outside sewer and water lines, Davidson Co., to J. A. Kelly Co., 3rd Natl. Bank Bldg., Nashville, under **$1,000,000.**

†Texas—Oil City Brass Works, Beaumont, plant, to Go. Sargl, Beaumont, **$268,000.** Federally financed. Awarded 10/22. CD 10/20—ENR 10/22.

†Texas—U. S. Eng., Etter, bldgs., Solic. 257-43-53, to Ramey Bros., Amarillo, **$100,000-$500,00.** Awarded 10/23.

†Texas—U. S. Eng., Fort Sam Houston, bldgs., underground utilities, electric distr. sys., Spec. 42-352, Bastrop Co., to Whitehill Constr. Co., 2014 10 St., Wichita Falls, **$50,000-$100,000.**

†Texas—U. S. Eng., Fort Sam Houston, bldgs., utility services, drives, walks, Spec. 42-508, Bastrop Co., to Quisle & Andrews, 3320 W. 7 St., Fort Worth, **$100,000-$500,000.** Bids about 10/13. CD 10/8.

†Texas—U. S. Eng., 231 W. Main St., Denison, bldgs., etc., Bowie Co., to Hardy Constr. Co., General Delivery, Texarkana, **$100,000-$500,000.**

†Texas—U. S. Eng., 231 W. Main St., Denison, remodeling, altering, new construction bldg., Dallas Co., to Meers Constr. Co., Great Nat'l. Life Bldg., Dallas, **$100,000-$500,000.** CD. 10/13—ENR 10/15.

†Texas—U. S. Eng., Fort Sam Houston, bldg., underground utilities, surfaced area, Tarrant Co., to McClung & Stanley, 4206 Birchman St., Fort Worth, under **$50,000.** Awarded 10/19. CD 9/30—ENR 10/8.

†Utah—U. S. Eng., 32 Exchange Pl., Salt Lake City, civilian housing, to Intermountain Contractor, Atlas Bldg., Salt Lake City, approximately **$500,000.** Bids 10/3.

★**†Utah**—U. S. Eng., 32 Exchange Pl., Salt Lake City, bldgs., facilities, Tooele Co., to R. D. Merrill, Helena, Mont. under **$1,000,000.** Bids 10/15.

†Utah—U. S. Eng., 32 Exchange Pl., Salt Lake City, housing, Weber Co., to James I. Barnes Constr. Co., Hill Field, Ogden, under **$500,000.** Bids 10/15.

★**†Va., Norfolk** — At office Federal Works Agency, 606 State Planters Bank Bldg., Richmond, hospital at St. Vincent de Paul Hospital, to M. Millimet & Associates, Inc., 446 Oak Grove Rd., Talbot Park, Norfolk. **$1,112,000.** CD 10/3—ENR 10/8 under LB.

★**†Va., Yorktown** and **Newport News** — Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., Supplementary Agreement 2, addnl. bldgs., NOY 4375, to Wise Contracting Co., Inc., and Virginia Engineering Co., Inc., 112 N. 8 St., Richmond, **$4,447,000.** Additional to CD 6/26—ENR 7/2, under CA.

†Washington—U. S. Eng., 800 3 Ave., Seattle, foundation for bldg., Spokane Co., to Spencer B. Lane Co., 251 Kearney St., San Francisco, Calif., under **$50,000.**

†Washington—Tacoma Housing Auth., Tacoma, dormitory, for NHA, to O. F. Larson & Son and H. G. Hartman, Pacific Savings Bldg., Tacoma. Est. **$150,000.**

★**†Wisconsin**—Public Housing Auth., NHA, 201 N. Wells St., Chicago, Ill., prefabricated dormitories, to Kroening Eng. Corp., 4500 W. Mitchell St., Milwaukee, **$588,000;** construction on site, to A. H. Proksch, Iron River, Mich., **$461,860.** CD 10/19—ENR 10/22 under LB.

★**†Wyoming**—Industrial Company, bldg., to Fluor Corp., 2500 Atlantic Blvd., Los Angeles, Calif., over **$1,000,000.** Defense Plant Corp. will finance.

★**†Outside United States**—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., two 600 kw. portable diesel electric power plants, substations, accessories, NOY 5433, to General Electric Co., 1 River Rd., Schenectady, N. Y., **$253,701.**

Ont., Ottawa—Dpt. P. Wks., hostel, Sussex St., to Hill-Clark-Francis, Ltd., New Liskeard, **$375,000.** Awarded 10/16. CD 7/27—ENR 7/30.

Que., Quebec City—Dpt. National Defense, Ottawa, Ont., arsenal addn., to Magloire Cauchon, Ltd., 311 de la Salle St., **$60,000.**

COMMERCIAL BUILDINGS

PROPOSED WORK

★**Ark., Pine Bluff**—Pine Bluff Realty Co., c/o Wallace E. Johnson, pres., P. O. Box 35, 137 dwellings. $548,000.

Ill., Savanna—Beverly Home Constr. Co., 3900 W. 111 St., Chicago, and Advance Builders, 3600 W. 111 St., Chicago, 30 homes. $150,000.

Pa., Loretto—St. Francis College, Rev. J. Doyle, converting Chas. M. Schwab Estate, 2 bldgs., 7 cottages, dairy barn into college facilities.

Pa., Phila.—Liberty Homes, Inc., thirty 2 story brick dwellings, Glenrock St. south of Levick St. $150,000.

Pa., Phila.—Magee Homes, Inc., Phila., plans by J. E. Fieldstein, Bankers Securities Bldg., sixty 2 story, brick, stone duplexes, Unruil Farshawe and Magee Sts. between Penway and Algon Aves.

R. I., Providence—Homeopathic Hospital of Rhode Island, 825 Chalkstone Ave., plans by Jackson, Robertson & Adams, 1216 Turks Head Bldg., brick, steel maternity wing addn., facilities for children. $150,000.

R. I., Warwick—Masonic Grand Lodge, 127 Dorrance St., Providence, plans by L. Kent, 68 S. Main St., Providence, brick, steel home for aged, Buttonwood Sect. Over $150,000.

BIDS ASKED

Bids Asked November 6

Pa., Latrobe—Latrobe Hospital Assn., R. C. McKenna, pres., 3 story, basmnt., brick, steel hospital addn., $250,000. Sorber & Hoone, 711 1st Natl. Bank Bldg., Greensburg, archts. Allegheny Eng. Co., 405 Fisher Bldg., Johnstown, engrs. CD 7/30—ENR 8/7.

Bids Asked

Tenn., Memphis—F. R. Judd, engr. Bldgs., 12 St., Chicago, Ill., razing old Poplar St. station and constructing new bldg., for Illinois Central Sys., C. H. Mottier, ch. engr., 135 E. 11 Pl., Chicago, Ill. $200,000.

CONTRACTS AWARDED

Calif., Oakland—Western Pacific R.R., T. L. Phillips, ch. engr., 526 Mission St., San Francisco, electrical work commissary bldg., to T. L. Rosenberg Co., 362 5 St., Oakland. CD 10/8—ENR 10/15, under CA.

★**Calif., San Leandro** — McGah & O'Shea Superior Tile Co., 4939 Bway., Oakland, 169 one story frame residences in Tract 638 opposite MacArthur Park, to C. W. Leekins, 1411 Davis St., **$676,000.**

Conn., Bristol—Sylbern Homes of Connecticut, Inc., Brookfield Blvd., Valley Stream, N. Y., fifty-two 1½ story, 23x32 ft. frame homes, Middle St., West Gate, Sylvia Lane, Bayberry Dr., Woodridge and Woodmere Rds. Owner builds. **$265,200.**

Ill., Sycamore—Own Your Own Home Corp., Sycamore, 60 houses, to Gust W. Nelson, 312 N Chicago Ave., Rockford. Est. over **$200,000.** CD 8/27—ENR 9/3.

Me., Portland—Victory Development Corp., 477 Congress St., seven 8 family and six 4

COMMERCIAL BLDGS. (Contracts Awarded Cont'd.)

family homes, brick veneer, frame. Owner builds. **$179,000.** CD 9/3—ENR 9/10.

★**N. J., Clifton**—Colonial Gardens, Inc., 626 Central Ave., seventy six 2½ story, bsmnt., brick veneer, frame apartments. Separate contracts, **$500,000.** CD 9/22—ENR 9/24.

N. J., Cranford—Birchwood Homes, Inc., 342 Madison Ave., New York, N. Y., 1 story, bsmnt frame homes, to Frankwill Building Corp., 2095 Bway., New York, N. Y., **$420,000.** CD 7/1—ENR 7/9.

Pa., Phila.—C. Metz, 8014 Ogantz Ave., 48 homes, Greenwood Gardens, West Oak Lane, 7800 Block Fayette St. Owner builds. **$240,000.**

Wis., Milwaukee—Cleveland Park Land Co., c/o contractor, ten 24x28 ft. frame residences, concrete block fdn., to Brody & Sondel, Inc., 7919 W. National Ave., West Allis; electrical contract to Lloyd Electric Co., 2864 N. Maryland Ave.

Wis., Milwaukee—Schroedel Constr. Co., 4429 W. North Ave., seven 31x45 ft. stone veneer, frame apartments, concrete fdn. Owner builds. Electrical contract, to Findlay Electric Co., 232 E. Warnimont Ave.

INDUSTRIAL BUILDINGS

PROPOSED WORK

Ala. Mobile—PLANT—Mobile Paper Mill Co. Inc., Crichton, R. E. Hartman, pres. plans by F. Clarke, Merchants Natl. Bank Bldg., paper mill addn. $100,000.

California — PLANT — Industrial Company, 298 Steuart St., San Francisco, plant, San Francisco Co. J. Hudspeth, 1145 Grizzly Peak Blvd., Berkeley, archt. J. B. Leonard, 298 Steuart St., San Francisco, engr.

★**Conn., Cos Cob**—POWER PLANT—New York, New Haven & Hartford R.R., E. E. Oviatt, ch. engr., Water St., New Haven, imprv. brick, steel, concrete power plant, new boiler included. **$500,000.** Gibbs & Hill, Inc., Penn Station, New York, N. Y., structural engr. CD 3/13—ENR 3/19.

Conn., New Haven—FACTORY—Owner c/o L. F. Caproni, engr., 1221 Chapel St., plans brick factory. Over $40,000.

Conn., New Haven—FOUNDRY AND STORAGE—Fritzell Fdry & Casting Co., 573 Dixwell Ave., altering 2 story, 50x100 ft. and 1 story, 30x82 ft. brick, timber foundry, and storage. L. Caproni, 1221 Chapel St., engr.

Conn., North Haven—FACTORY—Atlas-Ansonia Co., 54 Grant St., New Haven, soon lets contract twenty 1 story, 20x20 ft. factory bldg., extens. $40,000. L. F. Caproni, 1221 Chapel St., New Haven, engr.

Ia., Keokuk—PLANT—Swift & Co., Keokuk, egg dehydrating plant.

New Jersey—PLANT — Industrial Company, bids soon, 1 story, brick, steel, concrete plant, Mercer Co. William Slack & Son, 1401 W. State St., Trenton, archts.

N. J., Jersey City—PLANT—Colgate & Palmolive Peet Co., 105 Hudson St., 5 story, bsmnt., brick, concrete plant. $60,000.

N. J., Newark—COLD STORAGE, ETC.—Dist. Provision Co., Inc., 41 William St.; plans by M. Fruchtbaum, 400 Chestnut St., Phila., Pa., 2 story, bsmnt., stold storage rooms, smoke house addns. $50,000.

O., Cleveland—FACTORY—Kindt-Collins Co., E. T. Kindt, pres., 12651 Elmwood St., 1 story, 40x75 ft., brick factory. $40,000. McKay Eng. Co., 13124 Shaker Sq., engr.

R. I., Pawtucket—PLANT—Owares & Co., 32 Central Ave., sketches rebuilding brick plant. $75,000. Northeastern Plastic Corp. and Royal Yarn Co., 354 Prospect St., lessees.

Tex., Houston—PLANT—Gray Tool Co., R. A. Mueller, pres., 6102 Harrisburg Rd., tool mfg. unit and warehouse, 400 Blk. No. MacGregor St.

Tex., Kilgore—PLANT—R. Lacy Refining Co., Longview, reconstructing certain units cracking plant. $150,000 or more.

Wis., Sparta—PLANT—Pet Milk Co., Sparta, brick, steel plant addn., concrete fdn. E. A. Abendroth, c/o Worden-Allen Co., W. Capitol Dr. and N. 3 St., Milwaukee, engr.

B. C., New Westminster—PLANT—Haslam Lake Logging Co., Ltd., 713 Columbia St., logging plant, saw mill, etc. $50,000.

B. C., Princeton—POWER PLANT—Teulameen Coal Mines, Ltd., Princeton, power plant, compressor house. $100,000.

B. C., Vancouver—PLANT—Bestovall Cannin Co., Ltd., 2244 W. 10 Ave., 2 story, 150x240 ft. plant exten. $40,000.

Man., Kildonan—PLANT—Kildonan Canning Co., Ltd., 600 Jamieson Ave., reconstructing plant. $40,000.

Ont., Acton—PLANT—Armaco, Ltd., 24 Wellington St. W., Toronto, bids soon 1 story, 34x100 ft. brick plant addn. $45,000.

Ont., Belleville — GASOLINE DEPOT — Canadian Oil Co., Terminal Bldg., Toronto, aviation gasoline depot, Dundas St. $50,000.

Ont., Leaside (Toronto)—PLANT—Sutton-Horsley Co., Ltd., 263 Adelaide St. W., Toronto, bids soon, altering plant, 30 Commercial St. $105,400, incl. equip.

Ont., Toronto—REFINERY—Orkent Oil Co., Ltd., c/o E. C. Cattanach, 85 W. Richmond St., refinery, mineral lands development. $40,000.

Ont., Windsor—PLANT—Ford Motor Co. of Canada, Ltd., Sandwich St. E., bids soon 1 story, 60x203 ft. plant. $65,000. CD 4/7—ENR 4/9.

Que., Montmagny—GRAIN ELEVATOR—Farmers Co-operative Society, Montmagny, grain elevator, etc. $40,000.

Que., Montreal—MACHINE WORKS—Aero Eng. & Industrial Co., Ltd., (Rakoosky Precision Wks., Ltd.), 3480 St. Dominique St., bids soon 1 story, 56x182 ft. machine works, Rushbrooke Ave. $60,000.

Que., St. Thecle—MILL—A. Perron, St. Thecle, saw mill, sash and door factory.

Saskatchewan—PLANT—Owner, c/o Saskatchewan Industrial Development Bd., Regina, alcohol plnt. $250,000.

Sask., Radisson—GRAIN ELEVATOR, etc.—Radisson Milling Co., Ltd., Radisson, grain elevator, mill and boiler shop. $50,000.

BIDS ASKED

Bids Asked About November 7

Tex., Pittsburg—PLANT—Camp County Dehydration Plant, c/o G. Wilson, Pittsburg, 65x250 ft. potato yam dehydration plant. $300,000. CD 8/27—ENR 9/3.

Bids Asked

Mass., Springfield—WAREHOUSE—Smith & Wesson, 55 Stockbridge St., (from selected bidders) 1 story, 100x200 ft., brick warehouse. $40,000.

Pa., Greensboro—MACHINE SHOP—Duquesne Light Co., F. R. Phillips, pres., Phila. Bldg., Pittsburgh, general contract 1 story, 50x150 ft. brick machine shop.

CONTRACTS AWARDED

Calif., Burbank—FACTORY—Menasco Mfg. Co., 805 S. San Fernando Blvd., 100x200 ft. wood factory addn., to Noel L. Calhoun, 845 N. Highland Ave., Los Angeles, approx. **$100,000.** Barker & Ott, 624 S. LaBrea Ave., Los Angeles, archt.

Calif., Sacramento—WAREHOUSE—Southern Pacific R.R. Co., W. H. Kirkbride, ch. engr., 65 Market St., San Francisco, rebuilding warehouse, destroyed by fire. Owner builds. CD 9/3—ENR 9/10.

Calif., San Jose—PLANT—Food Machinery Corp., 217 W. Julian St., rein.-con. plant addn., to E. W. Heple, 494 Delmas Ave. E. W. Curtis, 35 W. San Carlos St., archt.

Conn., Forestville—PLANT—Bristol Machine Tool Co., Inc., 11 Jeannette St., 1 story, 45x100 ft., brick plant addn., to John Julian, Jeannette St. H. A. Hayden, 175 Main St., Bristol, archt.

Conn., Hartford—GARAGE—Connecticut Co., 53 Vernon St., 1 story, brick, concrete garage, bus terminal, Vernon St., to Paterson Constr. Co., Inc., 66 Anderson St., New Haven.

Conn., New Haven—FOUNDRY and STORAGE—Fritzell Fdry. & Casting Co., 573 Dixwell Ave., 2 story, 50x100 ft. and 1 story, 30x82 ft. brick foundry, storage units, to Berner Lohne Co., Inc., Woodbridge. Est. **$40,000.** CD 10/21—ENR 10/29.

Md., Baltimore—WAREHOUSE—J. H. Lehman, 1 story, brick, frame warehouse, to A. A. LaFountain, Inc., 161 Beech Ave., Hackensack, N. J. Est. **$65,000.** National Biscuit Co., 112 N. Appleton St., lessee. A. P. Starr, 4414 Greenwich Pkway. N.W., Wash., D. C., archt.

Mass., Boston — PLANT — Holtzer Cabot Electric Co., 125 Armory St., Jamaica Plain, altering plant, Stuart St., to C. A. Dodge Co., 2 Erie St., Cambridge. Est. **$40,000.** Chas. T. Main, Inc., 201 Devonshire St., engrs.

Mass., Easthampton—FACTORY—Cordanic Corp., Easthampton, general contract 2 story, brick factory addn., to Walter H. Barker, Inc., 23 Main St., Taunton. Est. **$40,000.** F. P. Sheldon & Sons, 1030 Hospital Trust Bldg., Providence, R. I., engrs.

Mass., Worcester — PLANT — Parker Wire Goods Co., 149 Washington St., 1 story brick plant addn., to J. B. Lowell, Inc., 173 Grove St. Est. **$42,000.** R. B. George, Oakham, archt.

Mich., Detroit — FACTORY — Hawthorne Metal Products Co., 18350 Hawthorne St., 1 story, 50x160 ft. brick, steel, rein.-con. factory, plain fdn., to Harry Hendershot, 5290 Balfour St. Est. approx. **$75,000.** J. Stahl, 820 Francis Palms Bldg., archt.

Mich., Detroit—FACTORY—Sheeting Supply Co., c/o J. Stahl, archt., 820 Francis Palms Bldg., 1 story, 50x100 ft. brick, concrete factory, plain fdn., to Harry Hendershot, 5290 Balfour St. Est. approx. **$40,000.**

★**Minn., Duluth**—SUBSTATION — Minnesota Power & Light Co., 30 W. Superior St., general contract sub-station, foot 50 Ave. W., also 25,000 KW addn. steam electric station, steel, brick, to Fulton Constr. Co., 1507 Tower Ave., Superior, Wis. Est. **$2,700,000.** CD 5/5—ENR 5/7.

Mo., St. Louis—FACT... Stitch Machinery Co., 3... —Lewis Invest... design and construction ... est Park Blvd... brick, factory addn., ... tory, 25x98 ... Sachs, 3227 N. Bway. Est. ... te fdn. to ... 0,000 with equip...

Mo., St. Louis—FACT... Co., 2019 N. Bway., 1 st... —Porbeck Mfg. ... factory, rein.-con. fdn., ... 75x149 ft., brick ... 5215 S. Grand Ave. Est. ... e Kloster Co., ... J. E. Tarling, 4114 W. ... 000 with equip... ... n Ave., archt.

N. J., Carteret — FA... Chlorine Chemical Co., R... RY — Weavers... rein.-con. factory, to Wa... t Ave., 2 story, ... Hobart St., Perth Amboy. ... J. Wiick, 26... 000.

N. J., Oxford — FACTOR... c/o contractor, several st... Varsett Corp., ... frame mfg. bldgs., to Jam... story, brick, ... 40 Clinton St., Newark, $4... Mitchell, Inc., ... 15 E. 40 St., New York, N. ... H. D. Way, ... archt.

N. D., Grand Forks—PLA... Grand Forks, general contr... Goodman Co., ... drying plant, to Johnson-... remodeling ex... N 3 St. Est. incl. equip. $1... nders Co. Ca... 000.

Pa., Etna—PLANT—Spa... halfant Co., 8... W. Bremer, works mr., But... St., repairing ... 1 story, 125x200 ft., steel, ... al siding ... mill bldg., separate contra... Est. **$40,000.**

Pa., Pittsburgh — REPAI... SHOP — Bar... Knox Co., Union Steel Casting Div., 62 40... Butler Sts., 2 story, 50x70 ft. rein.-con. re... pair shop, to Mellon-Stuart Co., 210 E. Parkway. Est. **$50,000.** Hunting Davis & Ins... nells, Century Bldg., archts.

Wis., Kenosha—WAREHOUSE, etc.—Kenosha Lumber & Coal Co., 2514 52 St., 1 story, 60x124 ft. concrete block warehouse and mill shop, to Lindemann Constr. Co., 4724 5 Ave., electrical contract, to Josephson & Thorney, Kenosha.

Wis., Milwaukee—FACTORY—Cutler Hammer, Inc., 315 N. 12 St., 2 story, 21x54 ft. brick factory addn., to H. Schmitt & Sons, Inc., 930 E. Burleigh St.

Wis., Milwaukee—FACTORY—David White Co., Inc., 315 W. Court St., general contract 2 story, 42x50 ft. brick factory addn., to Universal Constr. Co., Inc., 605 S. 12 St.; electrical contract, to A. H. Schilling, 315 N. 9 St. Federal Eng. Co., 720 N. Jefferson St., engrs. and archts.

Wis., Shawano — MILK CONDENSERY — Consolidated Badger Co-up., Shawano, 1 story, 60x60 and 60x140 ft. brick, rein.-con. milk condensery addn., to Lemke & Felts, Shawano. Bids 10/7. J. F. Dreger, 188 Waugoo St, Oshkosh, archt.

Wis., Union Center — PLANT — Cooperative Creamery Assn. Dist. 2, general contract 1 and 2 story, 68x123 ft. and 18x70 ft. wing milk dehydrating plant, to Fluor Bros. Constr. Co., Oshkosh, **$97,300***** plumbing, heating, ventilating, to Geo. J. McKoskey, LaCrosse, **$22,640***** electrical contract, to Clark-Bracing Inc., LaCrosse, **$14,410.** Grand total $134,350. Bids 10/21. CD 10/14—ENR 10/15.

Man., Winnipeg—PLANT—North Star Cold Storage Co., Ltd., 312 William St., 1 story, bsmnt., 22x65x99 ft. mill construction plant addn., to Carter-Halls-Aldinger Co., Ltd. Royal Bank Bldg., **$60,000.** CD 9/24—ENR 10/15.

N. S., Halifax—PLANT—Owner c/o contractor, plant to Foundation Maritime, Ltd., 135 Lower Water St. Est. **$300,000.**

Ont., Armstrong—MINING—Owner, c/o Contractor, mining bldgs., to Claydon Co., Ltd., Graham-Horne Bldg., Fort William. **$40,000.**

Ont., Cochrane—MINING—Owner, c/o contractor, mining bldg., to Malcolm Constr. Co., Ltd., 53 Osborne St., Winnipeg, Man. **$40,000.**

Ont., Eastview—PLANT—Northern Tool & Gauge Ltd., 14 McArthur Rd., 60x330 ft. concrete, frame plant, to Baker Bros., 66 Booth St., Ottawa, Est. **$40,000.** CD 8/26—ENR 9/10.

Ont., Hamilton — SHOP — Hamilton Bridge Co., Ltd., Bay St. N., 1 story, 50x100 ft. frame addn., Shop 2, to Frid Constr. Co., Ltd., 126 King St. E., about **$45,000.** CD 9/29—ENR 10/1, under CA.

Ont., Nakina—MINING—Owner, c/o Contractor, mining bldgs., to Claydon Co., Ltd., Graham Horne Bldg., Fort William. Est. **$40,000.**

Que., Lachine—PLANT—Steel Co. of Canada, Ltd., 75 St. Joseph St., 2 story, 37x150 ft., brick welding rod plant, to Walter G. Hunt Co., Ltd., 1405 Bishop St., Montreal, about **$45,000.** Owner's staff and B. R. Perry, 680 Sherbrooke St. W., Montreal, engrs.

Que., Quebec City—PLANT—Dominion Oxygen Co., Ltd., 159 Bay St., Toronto, Ont., plant, to Magloire Cauchon, 311 de la Salle St., **$165,739.** CD 8/5—ENR 8/13.

Que., Tingwick—MINES—Nicolet Asbestos Mines Ltd., Tingwick, mines bldgs., to Tremblay & Bonin, 137 9 Ave., Sherbrooke. Est. **$40,000.** Engineer, c/o M. Turcotte, Tingwick.

Sask., Moose Jaw—PLANT—Swift Canadian Co., Ltd., 7 St. Clair Ave., Toronto, Ont., 2 story, 36x80 ft. plant addn., to Bird Constr. Co., Ltd., 21 7 St., Regina. Est. **$40,000.**